



Cornell
University

ANNOUNCEMENTS

Graduate School
Humanities

1970-71

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GRADUATE SCHOOL OF MEDICAL SCIENCES

1300 York Avenue
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UNIVERSITY PROFESSORS-AT-LARGE

Professors-at-Large are distinguished nonresident members of the University faculty. During short visits to the campus, of up to a month's duration, made at irregular intervals, they hold seminars, give public lectures, and consult informally with students and faculty.

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Elizabeth Mary Wilkinson

The business office of the Graduate School and the Office of the Dean are in Sage Graduate Center. Office hours are 8:30 A.M. to 4:30 P.M., Monday through Friday. The office is closed on Saturday.

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The courses and curricula described in this *Announcement*, the teaching personnel listed therein, and the dates shown in the calendars of the Graduate School are subject to change at any time by official action of Cornell University.

Cornell University

GRADUATE EDUCATION AT CORNELL

Graduate education at Cornell is based on the principle that no objective of a university lies deeper in its tradition or springs higher in its aspiration than does the nurture of scholarship. The advancement of learning, the methods of learning, and the criticism of learning occupy the highest reaches of university life and work. Graduate education brings into fruitful contact the most distinguished scholars and the most advanced students, that learning may be shared and that wisdom may be at least glimpsed.

The Graduate School provides an environment within which scholarly capability is encouraged to emerge, thrive, and transmit itself. The School arranges a set of conditions congenial to the student who is prepared to profit from the availability of advanced courses of study; the opportunity for sustained reflection; the companionship of active, full-time fellow students; the most highly developed libraries, laboratories, and other facilities for research; the prospect of independent discovery or recovery, of evaluation or revaluation; the daily presence of distinguished teachers; and the hope of attaining a firmly based structure of knowledge and a free and independent habit of judgment.

Freedom and independence are key qualities of scholarship, and graduate studies at Cornell are ordered so as to preserve them for both teacher and student. The Cornell principle is that scholars are begotten by other scholars, that judgments are formed by associating with the best judges, that learning lives in the unbroken succession of the learners and the learned, that genuine scholarship is always humane and rests ultimately on personal teaching and personal learning, that success in graduate studies must consist of satisfying the professor rather than a mute schedule of requirements. Graduate School standards are high, but they are maintained there not by the pronouncements of an office but rather by the men after whom such standards are themselves fashioned.

The Cornell graduate student selects not only the study he wishes to pursue, but also the scholar under whose tutelage he wishes to pursue it.

The candidate himself, no one else, makes the choice. Some candidates when they apply for admission have in mind the man or men with whom they wish to study. Those who do not are granted, under a temporary adviser, a semester in which to form an acquaintance and to come to a decision. The supervising professor is called the student's chairman. The chairman and his associate or associates, also chosen by the student, form the student's Special Committee. All such matters as the outlines of study, the observation of progress, the setting of general examinations, the conduct of the thesis, and other exercises leading to a graduate degree are determined within this small circle—the student and the professors he has selected to direct him. So successful is this arrangement and so strongly does Cornell believe in it, that the Special Committee enjoys extraordinary freedom and independence in conducting the student to his degree. The Graduate School sets no course requirement, no credit-hours requirement, no grade requirement. Within the broad agreements of the Graduate Faculty concerning residence, oral examinations, and thesis, the student will be recommended for his degree whenever his Special Committee judges him ready to receive it. When the Committee is satisfied, the requirements are.

The Cornell Graduate School has an enrollment of 3,300 students, and the Graduate Faculty consists of about 1,100 members. In contrast to many other graduate schools, approximately 98 percent of the students are full-time degree candidates, with the majority in programs leading to the Ph.D. degree.

The responsibility for administration of policies and procedures, including the general requirements, the establishment of Fields and subjects for study, admissions, and maintenance of records is placed in the hands of the dean and his staff under the guidance of the General Committee of the Graduate School. These matters are described in detail in *The Code of Legislation*, copies of which may be obtained by enrolled students from the Graduate School Office and which are also available for consultation in other academic and administrative offices of the University.

The University expects that all graduate students at Cornell University shall, at all times, act with a mature and morally responsible attitude, recognizing the basic rules of society and the common rights of others.

ADMISSION

An applicant for admission to the Graduate School must (1) hold a baccalaureate degree granted by a faculty or university of recognized standing or have completed studies equivalent to those required for a baccalaureate degree at Cornell, (2) have adequate preparation for graduate study in his chosen field of instruction, (3) have fluent command of the English language, and (4) present evidence of promise in advanced study and research. Students from United States colleges and

universities should be in the top third of their graduating class. Other qualifications being equal, preference will be given to applicants under forty.

Applications for admission should be requested from the Graduate School, Sage Graduate Center, Cornell University, Ithaca, N.Y. 14850. Two letters of recommendation should be sent from the applicant's major instructors. Official transcripts from all the institutions of higher learning attended, and where required, the Graduate Record Examination or the Miller Analogies Test scores complete the application.

All applications from residents or citizens of the United States or Canada must be accompanied by a \$15 nonrefundable fee. Applicants from other countries who have been accepted for admission must pay this fee before registration.

Fellowship and admission applicants are urged to take the Graduate Record Examinations (GRE) Aptitude (Verbal and Quantitative) Tests of the Educational Testing Service no later than December, and to have the scores sent to the Cornell Graduate School as part of their application materials. Information about the times and places of test administrations may be obtained directly from the Educational Testing Service, Princeton, New Jersey 08540. The Field listings, pp. 53 ff., should be consulted for Fields requiring the scores of both the Aptitude Test and the pertinent Advanced Test.

Foreign applicants whose native language is not English and who have received their secondary or advanced education in the English language should submit to the Graduate School a statement to this effect signed by a responsible officer of a United States Embassy or Consulate or by an appropriate official of the educational institution involved. If English has not been the medium of instruction, applicants must take the Test of English as a Foreign Language by arrangement with Educational Testing Service, Princeton, New Jersey 08540. This testing program is available throughout the world. The test is given four times a year; information on times and places may be obtained directly from the address given above. The test score must be reported directly by the testing organization to the Graduate School; since this test is diagnostic, no final action on applications will be taken until the scores have been received. Admission to those applicants whose scores indicate unsatisfactory command of English may be denied, or it may be made contingent upon evidence of improvement.

CATEGORIES OF ADMISSION

DEGREE PROGRAMS. It is expected that most applicants for admission intend to pursue a program for an advance degree. Applicants may specify candidacy for the Master of Arts or Master of Science or one of the professional Master's degrees listed on pp. 26-30. However, since Cornell has a strong commitment to doctoral work, most students are encouraged to enroll in a doctoral program. In some fields, students registered in a doctoral program may be required to seek a Master's degree as an initial step in the program.

8 DEGREE REQUIREMENTS

Only under unusual circumstances will anyone who already holds an advance degree be permitted to apply for the same degree.

PROVISIONAL CANDIDACY. Under circumstances in which it is difficult to evaluate the academic background of qualified applicants, they may be admitted to *provisional* candidacy. Ordinarily only one semester of study in provisional candidacy is permitted, and the student who fails to qualify for candidacy at the end of that time may be requested to withdraw from the University.

NONCANDIDACY. When staff and facilities are available, the Graduate School will admit some applicants who do not intend to work toward an advanced degree at Cornell but who have special objectives for formal study or scholarly work at the graduate level, provided they satisfy all the entrance requirements expected of degree candidates. Registration in noncandidacy is restricted to two semesters.

CHANGE OF STATUS. A student who wishes to change his status from nondegree candidacy to regular candidacy or from one degree or Field to another, or who, after receiving the Master's degree, wishes to undertake candidacy for the doctorate, must submit to the Dean of the Graduate School a written request giving reasons for the proposed change. Provisional candidacy is automatically reviewed at the end of each semester; therefore, no letter is necessary.

DEGREE REQUIREMENTS

THE SPECIAL COMMITTEE. The general degree requirements of the Graduate School are kept at a minimum in order to give the student maximum flexibility in choosing a desirable program of studies. Since progress in graduate study depends so much on the individual student's situation, there are no course or grade requirements imposed by the Graduate School. The student's program is developed with the aid and direction of a Special Committee chosen by the student and is designed to fit his specific needs and desires. Satisfactory progress toward the degree is judged solely by the Special Committee rather than by any arbitrary standards imposed by the Graduate School.

The Special Committee under which a Master of Arts or a Master of Science candidate carries on his work is composed of a chairman who represents the major subject, and one representative of an appropriate minor subject. The Special Committee of a doctoral student is composed of a chairman, representing the major subject, and two other members representing other areas of interest. The chairman of the Special Committee directs the student's thesis research. Some Fields of study require two minor subjects for doctoral programs while others require only one, but all Ph.D. Special Committees have three members.

The Field and the major subject, as well as the chairman of the Special Committee, are selected by the incoming student. It is his privilege to ask any member of the Graduate School Faculty in the Field of his major subject to serve as his chairman. The chairman in

turn advises the student about minor subjects and faculty members who might represent them on his Special Committee. The choice of major and minor subjects and the formation of the Special Committee must be recorded in the Graduate School Office within two weeks of the beginning of residency. However, since the student may be uncertain of his aspirations at that time, he is encouraged to change the membership of his Special Committee as his aims become more definite.

In some of the larger Fields of the Graduate School the difficulty in making a wise selection of a Committee is so great that the Field Representative or other faculty member may serve temporarily as the chairman while the student seeks a permanent chairman and Committee.

The members of the Special Committee direct the student's program and decide whether he is making satisfactory progress toward the degree. They conduct and report on oral examinations, and they approve the thesis. The Committee and the student constitute an independent working unit. All members of the Graduate School Faculty, however, are free to participate in the scheduled examinations and review the theses of candidates for degrees.

The organization of the Graduate School at Cornell is based on a concept of fields of study independent of colleges and departments. It is thus possible for a graduate student to take courses in any division of the University and to choose major and minor subjects without regard to organizational lines.

RESIDENCE

The Graduate Faculty regards study in residence as essential. Although a person working off campus may attain proficiency in a technique or even in a field of knowledge, he may fail in other ways to attain the breadth of knowledge necessary for scholarly work. In addition to contact with the libraries and physical facilities of the University, he needs the daily acquaintance, company, aid, and stimulus of others engaged in similar pursuits. He should form the habit of attending lectures, seminars, and meetings of groups in whose activities he takes interest.

Full-time study for one semester with satisfactory accomplishment constitutes one residence unit. The Graduate School Faculty requires that each candidate for a Master's degree earn two units of residence, and for the Ph.D. degree, six units of residence. However, a longer time is generally required to obtain the degree.

A student must complete all the requirements for the Master's degree in four years and for a doctoral degree in seven years.

A student in a doctoral program may earn no more than two units for work done in Summer Research, Summer Session, and the Division of Extramural Courses. At least four of the six required units must be earned as a full-time student, earning three-quarters of a residence unit or more each term, and two of the last four units must be earned in successive terms of full-time study on the Cornell campus.

10 DEGREE REQUIREMENTS

TRANSFER OF RESIDENCE. Candidates for the Master's degree may not count study in other graduate schools as part of their residence. Candidates for the doctorate may be permitted to count study for the Master's degree as equivalent to two residence units; those who have received training of an exceptional quality and amount may petition for more. No commitment regarding this may be made until after the student has entered into residence and his Special Committee has had opportunity to judge his accomplishments. The residence transferred must not exceed that which would have been earned under similar circumstances at Cornell. Credits for study as an undergraduate or as a special student, even in courses designed primarily or wholly for graduate students, will not be allowed.

SUMMER SESSION. To receive residence credit for the Summer Session, the candidate must register in both the Summer Session and the Graduate School and must file a statement of courses satisfactory to his Special Committee. A student may, with his Special Committee's prior approval, earn one-half of a residence unit by completing eight hours or more of credit in the eight-week session, or two-fifths of a unit for six hours or more in the six-week session.

Requirements for Master's degrees may, upon approval of the appropriate graduate Field, be completed solely during the summer period if instruction in the chosen major and minor subjects is offered. Only two residence units for study in the Summer Session may be accepted in fulfillment of requirements for the doctorate. Residence may be transferred for study during one Summer Session preceding matriculation in the Graduate School if this study is an integral part of the graduate program subsequently undertaken, and if the transfer is recommended by the student's Special Committee and approved by the dean of the Graduate School.

SUMMER RESEARCH. To encourage students to continue their studies during the summer period, no tuition or fees are charged for summer research if the student has been registered during the previous academic year. Substantial funds are also available for summer fellowship and research assistantship support. There is a special summer fellowship program for students who have held teaching fellowships during the previous academic year. Students have access to the regular services of the University Clinic and Infirmary during the summer without charge. Under certain conditions, students may also accumulate residence credit in summer research.

PART-TIME STUDIES. Essentially, all graduate students at Cornell are full-time students. If employment is necessary, students may hold positions requiring up to ten hours of work per week without reduction of residence credit. Teaching fellows and research assistants whose duties require up to twenty hours a week can obtain full residence credit.

Part-time employees are eligible for residence units as follows.

EMPLOYMENT	RESIDENCE UNITS ALLOWABLE PER SEMESTER		
<i>Total clock hours per week</i>	<i>Contributory in the major field of study and on campus</i>	<i>Noncontributory but on campus</i>	<i>Off campus</i>
0-10 hours	1 unit	1 unit	1 unit
11-20 hours	1 unit	$\frac{3}{4}$ unit	$\frac{3}{4}$ unit
21-30 hours	$\frac{3}{4}$ unit	$\frac{1}{2}$ unit	(See below)

Those employed for more than twenty clock-hours per week off campus, or more than thirty clock-hours per week under any circumstances, may earn a maximum of two-fifths of a residence unit per semester through registration in the Division of Extramural Courses, but this will be permitted only on the basis of petition approved prior to the time that the work is undertaken. For the degree of Master of Arts or Master of Science a maximum of one unit, and for the degree of Ph.D. a maximum of two units of residence may be earned in this way.

To accumulate residence units for course work completed through the Division of Extramural Courses, fifteen credit hours are the equivalent of one residence unit, and six credit hours the equivalent of two-fifths of a unit—the smallest fraction that will be recorded by the Graduate School toward fulfillment of residence requirements. Detailed information concerning extramural courses and registration procedures may be obtained from the Division of Extramural Courses, B-20 Ives Hall.

EXAMINATIONS

The Special Committee conducts the examinations that are required for the degree. At the discretion of the Special Committee these examinations may be entirely oral or both oral and written. The following examinations are required.

For the Master's degree: A final examination is required, which under certain conditions may be combined with the Admission to (Ph.D.) Candidacy Examination.

For the doctoral degrees: (1) A comprehensive Admission to Candidacy Examination for formal admission to doctoral candidacy is required. This examination may not be taken until two units of residence credit have been accumulated; it must be attempted before the beginning of the student's seventh unit of residence. Two units of residence must be credited after this examination. (2) A final examination, which is primarily concerned with the doctoral dissertation, is required.

In Fields that so desire, the Special Committee may, after the Admission to Candidacy Examination has been taken, nominate the student for a Master's degree without the requirement of a thesis whether or not admission to candidacy for the Ph.D. has been approved. The degree would be awarded after the completion of four units of residence.

In some Fields a qualifying examination is given at an early date to determine the student's fitness for advanced study and to help the Special Committee plan his program.

When the candidate has completed the thesis, he presents it to the Special Committee for the final thesis examination. This examination is oral and covers subject matter related to the thesis topic.

FOREIGN LANGUAGE REQUIREMENTS

Each Field of instruction has its own foreign language requirements which it considers most useful to the particular area of study. Any Special Committee may, at its discretion, require knowledge of foreign languages beyond the announced requirements.

Candidates required by Fields to demonstrate reading ability in French, German, Russian, or Spanish must pass the Graduate School Foreign Language Test given by the Educational Testing Service, Princeton, N. J. 08540, and administered by the Graduate School. A charge is made to cover the cost of administering each test. As an alternative, candidates may pass the reading part of the CEEB college language test with a score satisfactory to the Division of Modern Languages. Students who take examinations in languages other than French, German, Russian, or Spanish, or in a speaking knowledge of any language, should arrange with the Graduate School Office for assignment to a suitable examiner. Arrangements to demonstrate a higher level of proficiency in a foreign language, as required by some Fields, may also be made at the Graduate School Office.

A student may petition the dean to transfer a language examination taken elsewhere to his record at Cornell.

Courses designed to aid graduate students in learning how to read French, German, Russian, and Spanish are given by the Division of Modern Languages in cooperation with the Graduate School Faculty.

THESIS

Candidates for the degree of Master of Arts or Master of Science are required to submit a thesis in fulfillment of the requirements for the degree (except as stated on p. 11). Some Fields also require a thesis for professional Master's degrees. Candidates for the doctoral degree must complete a thesis which constitutes an imaginative contribution to knowledge. The faculty requires publication of Ph.D. theses by abstract or microfilm.

FINANCIAL SUPPORT

Extensive financial resources are available to Cornell graduate students to help them defray the cost of their education. Approximately 3,000 of the 3,300 graduate students receive financial aid in the form of fellowships, teaching assistantships, and research assistantships.

In many cases the stipends awarded to graduate students are not high enough to cover living expenses completely. A great deal depends on the level of subsistence to which the individual has become accustomed and the sacrifices that he is willing to make for his education. Experience has shown that married students with dependent children have particular financial difficulties. The minimum subsistence income which such students need is about \$4,000 plus tuition and the General Fee per academic year. Since stipends are frequently lower than this figure, it may be necessary for the student to find other sources of supplementary income such as loans in order to complete his studies.

Since the demands of graduate study are so great, students are discouraged from trying to support themselves by unrelated employment.

No special forms are available for financial aid. The applicants should check the type or types of appointment for which he wishes to be considered on the application for admission form.

TEACHING FELLOWSHIPS

The duties of a teaching fellow normally involve classroom and laboratory instruction of undergraduates and, as such, play a major role in the educational process and the academic atmosphere of the University. Since a large majority of Cornell's graduate students eventually seek a career in teaching, the experience gained from these appointments is an invaluable part of the student's development. In most Fields of study students are encouraged to spend some time in teaching, and in a few Fields the faculty believe the experience so important that they require it of all students in doctoral programs. An appointment as a teaching fellow is usually in the student's major Field or in one that is closely related. The duties require from ten to twenty total clock-hours a week of the student's time, depending on the Field. A teaching fellow whose duties are in his major Field of interest and do not exceed twenty hours is eligible for full residence credit. Salary for a fifteen-hour week will be \$2,700 with a slightly higher amount for longer hours, supplemented by a scholarship which covers tuition and the General Fee. A special summer fellowship program is also available for teaching fellows. Because of possible problems in communication with undergraduates, applicants from non-English-speaking countries are not normally appointed as teaching fellows in their first year at Cornell. Teaching appointments are made by department chairmen. Applications for these positions should be made to the Field Representative of the Field offering the major subject of interest to the student.

RESEARCH ASSISTANTSHIPS

The duties of a research assistant involve work on a research project. The work performed is frequently applicable to the student's thesis research and is under the direction of the chairman of his Special Com-

mittee. The student is required to spend twenty hours a week, but if the research is in the Field of his major interest he can earn full-time residence credit. In many Fields of study such appointments are normally made after completion of at least one year of graduate study.

FELLOWSHIPS

A fellowship ordinarily is awarded in open competition to a full-time student who is a candidate for a higher degree (usually a Ph.D.), primarily on the basis of scholastic ability and promise of achievement as a graduate student. The award is made as a tax-exempt gift, and it usually not only covers tuition and the General Fee but also may provide a substantial stipend for living expenses during tenure. However, if the combined anticipated income of the student and his spouse for the year from September 1, 1970, to September 1, 1971, exceeds \$8,000, the fellowship may be adjusted accordingly. A student who holds a fellowship is free to select his own research project, subject to the approval of his Special Committee, and his primary responsibility is to pursue his studies for his degree. The award of the fellowship does not obligate the holder to render services to the University, except that in certain fields some teaching is required of all graduate students for the sake of experience and training, nor is the holder of a fellowship committed in any way with respect to future employment. The holder of a fellowship may accept no other appointment or employment without permission of the Fellowship Board; however, teaching responsibilities will usually be approved as a routine matter if they contribute to the student's graduate program and do not exceed ten clock-hours of work per week.

More than 450 fellowships are under the direct supervision of the Cornell Graduate Fellowship Board or of academic units of Cornell. The range of stipend (in addition to tuition and the General Fee and, in some cases, dependency allowances) for different categories of fellowships available to first-year students is indicated below.

Cornell Andrew D. White Fellowships—\$2,500–\$3,000

Cornell Graduate Fellowships—\$2,000

Cornell Fellowships from Special Endowments—\$1,000–\$2,000

Industrial Fellowships—\$1,500–\$2,500

Many other fellowships are offered to students majoring in certain Fields of study, and some of these are noted in the descriptions of the Fields. (See also Summer Fellowship Support, p. 16.)

A program is under way at Cornell for students in the humanities and in selected Fields of the social sciences (Anthropology, Economics, Government, Linguistics, Psychology, and Sociology). Its aim is to reduce the time required for a Ph.D. degree. This is to be accomplished through a greatly enlarged program of support, without any sacrifice in the academic standards or requirements for the degree. Incoming students in the Fields covered by the program will be guaranteed support for four years, including the summer following the first academic year. In most cases, there will be fellowship support for three of the years, with

increasing stipends accompanied by full tuition and the General Fee. One year, or in a few cases up to two years, of teaching fellowship will provide both support and valuable experience and training. Dependency allowances will be available. About 90 percent of those in the program will be given modest summer scholarships to enable them to continue their studies throughout the year. This particular program is assured only for students entering in the fall of 1970 or before.

Many private and federally supported fellowships are also administered by the Graduate School. National Science Foundation Traineeships, as well as National Defense Education Act (NDEA) Title IV Fellowships, are available to United States citizens. The application deadline for these is February 1 for the following academic year; candidates for these fellowships are nominated by the Field, having been chosen from among those students applying. NDEA Title IV Fellowships offer three years of support to doctoral students who intend to enter a teaching career. (Since completion of a Ph.D. program at Cornell normally requires four years, and because the program is aimed at prospective teachers, NDEA Fellows are normally expected to gain teaching experience and have support during one of the years as teaching fellows.)

The purpose of the NDEA Title VI (NDFL) Fellowship program is to encourage individuals taking advanced training in languages and in associated area studies designated as being of critical importance to the United States. For area studies, see pp. 32-42. Applicants who are interested in NDFL Fellowship support must so indicate when requesting their application materials for admission. National Institutes of Health Traineeships are available and are offered by Fields which have been awarded such grants.

A space is provided on the admission application form in which the student may indicate the type of support for which he wishes to be considered. No special fellowship application form is required.

Prospective graduate students should also consider applying for fellowships awarded on a national basis by the National Science Foundation, the Atomic Energy Commission, the Public Health Service, the Woodrow Wilson National Fellowship Foundation, and the Ford Foundation. These programs have deadlines for applications, some as early as December 1. Applicants should check on the date pertinent to the fellowship. In some cases it is possible for winners of NSF and AEC awards and for PHS Fellows to hold half-time appointments as teaching fellows for an additional stipend.

New York State provides several forms of financial support. The Herbert H. Lehman Fellowship program is open to applicants whose interest is in social sciences or public or international affairs, and the Fellowship is open to applicants from all states. These Fellowships are awarded on a competitive basis and may be used only in New York State institutions; they provide each recipient with \$4,000 for the first year of graduate study and \$5,000 for each subsequent year. New York State residents are eligible for Regents College Teaching Fellowships or Regents Fellowships for Doctoral Study in Arts, Science, and Engineering. Applications for these must be made by December 1 on forms

obtained from the Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12224.

As agreed upon by some of the members of the Council of Graduate Schools in the United States, the regular time for notification of award from Cornell of fellowships and scholarships for the succeeding academic year is April 1. *All fellowship and scholarship applications received by February 1 will be considered for April awards*, and every effort will be made to notify each applicant approved for award no later than April 6 as to whether he has a fellowship or is named as an alternate. It is hoped that the awardees will notify the Graduate School no later than April 15 of their acceptance or rejection of the award; failure to do so will be considered a declination. Applications received after February 1 will be considered only if vacancies occur.

SUMMER FELLOWSHIP SUPPORT

The Graduate School Faculty believes that graduate education, in contrast to undergraduate programs, should be on a year-round basis to enable students to obtain their degrees in a reasonable period of time. The majority of Cornell Ph.D. students are, therefore, supported over the summer period through research assistantships and fellowships. Normally the summer period is devoted to informal study and research rather than to course work, and no tuition or fees are charged.

Two extensive summer fellowship programs based on financial need are noteworthy. One involves awards to those students who have been full-time teaching fellows. The other involves fellowship support to students who are in the final stages of their thesis preparation. It is expected that some 250 summer fellowships will be awarded for the summer of 1971 under these two programs. Another 1,300 students will be supported as research assistants, and 250 students will be on twelve-month fellowships.

RESIDENCE HALL ASSISTANTSHIPS

Assistantships in University residence halls are available for men and women graduate students in any academic field. They are most appropriate for graduate students who desire experience in working with undergraduate students and University staff while contributing financially to their own study.

In the women's area eighteen assistantships are available, offering living expenses and a yearly stipend. Details of the assistantships and application forms may be obtained by writing to the Office of the Dean of Students, 133 Day Hall. A personal interview is desirable but not always required.

In men's housing two types of positions are available, the head residency and resident advisorship. There are head residencies for single and married men. A head resident receives his apartment, a stipend of

\$700, payment of one-half tuition and fees, and a board package which varies according to his marital status. Resident advisorships are available to single men and provide room, a \$500 stipend, payment of one-half tuition and fees, and twenty meals weekly in University facilities. There are eight head residencies and resident advisorships. These men work in counseling, guidance, and programming, and direct the activities of undergraduate residence counselors.

Applications should be addressed to the Office of the Dean of Students, 133 Day Hall; the deadline for application is January 15. A personal interview is required for acceptance for a position.

PRIZES

Several University prizes are open for competition to all students, including graduate students. The Committee on Prizes of the University faculty publishes an *Announcement of Prize Competitions*, which may be obtained from the Visitor Information Center, Day Hall.

Two other prizes are open exclusively to graduate students:

THE GUILFORD ESSAY PRIZE. Until at least 1971 a special prize of \$120 will be assigned annually to that graduate student who, in the judgment of the Graduate Faculty, writes the best English prose. Each competitor must submit, at or before 12 M. of the last Monday in November, specimens of his English prose, preferably prepared as a normal part of his training in candidacy for an advanced degree.

THE PHILOSOPHY PRIZE. A prize of \$50 is awarded to the graduate student who submits the best paper embodying the results of research in the Field of Philosophy. The subject of the paper may be historical or critical or constructive. It may be concerned either with problems of pure philosophy or with the philosophical bearing of the concepts and methods of the sciences. Papers must be submitted on or before the first day of May.

Papers submitted in competition for either prize must be typewritten on bond paper (a clean *ribbon* copy), double-spaced, at least 1,500 and not more than 5,000 words in length, and signed with an assumed name, the real name and address of the competitor being enclosed in a sealed envelope, superscribed with the assumed name. They are to be deposited in the Office of the Graduate School. A student may not submit more than one paper.

LOANS

Only graduate students duly registered in a degree-granting program are eligible for loans. Provisional or noncandidate students are not.

Cornell utilizes university, state, and National Defense Loan programs. The total amount of loan recommended, regardless of source, is

based upon the financial need of the student as analyzed by the University Committee on Financial Aid.

Applications for all types of loans are available at the Office of Scholarships and Financial Aid, 109 Day Hall.

PART-TIME EMPLOYMENT

Opportunities for part-time work are often available in connection with departmental research projects or other activities. Applications for this type of work should be made directly to the department concerned. A candidate may find employment in research or other work closely allied to his academic interest valuable. On the other hand, progress in candidacy is difficult when a student attempts to support himself wholly or partially by work unrelated to his studies. It usually is sounder economy to borrow from the Office of Scholarships and Financial Aid and keep employment to a minimum. However, the University maintains a part-time employment service in that office.

EMPLOYMENT FOR WIVES OF STUDENTS

Cornell University offers many nonacademic positions for working wives through the Personnel Division, B-12 Ives Hall. Types of work include secretarial and clerical work, work for technicians in the various laboratories, library work, limited nursing positions, and some administrative positions. Applications may be made through the Personnel Division upon arrival on campus. Applicants for academic positions should apply to the specific departments in which they are interested.

In addition to the University positions, the Ithaca area offers opportunities for similar positions in small industrial plants, Ithaca College, the local hospital, and various businesses, as well as for teaching positions in the public school system and some professional positions in service agencies. Applicants should go to the New York State Employment Office for further information regarding these opportunities.

GENERAL INFORMATION

COURSES AND GRADES. The Graduate School is not a course-offering agency. Therefore, students wishing information about courses or grades should inquire at the Office of the Registrar. However, the Graduate Faculty has ruled that a course may not be dropped or changed from credit to audit after the tenth week of classes.

ACTIVITIES FOR GRADUATE STUDENTS. Cornell is in a small academic town in central New York State. It has the advantages of a small-town atmosphere but at the same time has many cultural aspects that rival those of any large city. A significant concert program brings internationally famous artists to Ithaca. Dramatic programs, talks by

visiting lecturers, and art exhibitions fill the weekly calendar of the University and present such a wide choice of events that a student cannot possibly attend all in which he is interested.

There are places for graduate students in many extracurricular activities shared by undergraduates; among others are intramural sports, drama, Glee Club, Sage Chapel Choir, publications, music, and folk dancing. A Graduate Student Activities Committee is active in scheduling weekly social events. A Graduate Wives' Club has had a long tradition of activity for the wives of graduate students. Willard Straight Hall and the Sage Graduate Center provide facilities for graduate groups and aid in planning special functions for them.

Cornell United Religious Work (CURW) includes a range of activities for graduate students. Its offices are in Anabel Taylor Hall, which serves as headquarters for chaplains who represent several denominations and who may be consulted by students.

Cornell's location in the Finger Lakes Region of New York State stimulates outdoor activity. Many swimming and boating facilities are available. In addition, Cornell operates a private eighteen-hole golf course; indoor and outdoor swimming facilities; indoor skating rink; tennis, handball, and squash courts; gymnasium; and riding stables all of which are open to graduate students. A variety of ski resorts also operate nearby.

Almost all fields of study sponsor weekly seminars for their faculty and graduate students.

COUNSELING. The University maintains a variety of counseling services available to graduate students. A student's primary academic counselors are the members of his Special Committee.

Other counselors who are able to help in matters of various kinds will be found in the Office of the Dean of Students, the Office of Scholarships and Financial Aid, the International Student Office, the Gannett Medical Clinic, and the Sage Graduate Center.

INTERNATIONAL STUDENTS. Cornell has, since its founding, welcomed students from abroad. Currently 1,120 foreign students representing eighty-seven countries are pursuing study in a variety of fields.

In addition, each year over one hundred faculty members spend some time abroad in study and research, often in close association with foreign universities. This creates within the University community opportunities for students from other countries to meet and exchange ideas with members of the Cornell faculty, who often have first-hand knowledge of several countries and understand and appreciate a variety of cultures.

Special programs within the Graduate School permit study in depth of particular areas such as Africa, Asia, Southeast Asia, Latin America, and the Near East. Students from those areas have an opportunity to contribute to such programs.

The Ithaca community is in a natural setting which allows for enjoyment of many recreational activities. In addition, varied cultural and intellectual activities are sponsored by the University. Tours of the

community are conducted at the beginning of the fall semester. A group of Cornell faculty and Ithaca families maintain a Host Family Program, in which foreign students are invited to share in some aspects of American family life in the Ithaca community. Because the University population is a varied one, the community itself, although not large, tends to have a more cosmopolitan atmosphere than most other small cities, and the student can usually find an outlet for a wide variety of interests.

The University maintains an International Student Office at 142 Day Hall. Students from abroad are asked to report to this Office upon arriving in Ithaca and are invited to consult the staff on any questions they may have. The Office works in close association with academic advisers and sponsors, and also with persons involved in a number of student and community programs in efforts to enrich the international and cultural life of Cornell.

HEALTH REQUIREMENTS ON ENTRANCE

The following health requirements for entering graduate students have been adopted by the Board of Trustees of Cornell University. The responsibility for fulfilling these requirements rests upon the student; failure to do so may result in loss of the privilege of registering the following term.

IMMUNIZATION. A satisfactory certificate of immunization against smallpox, on the form supplied by the University, must be submitted before registration. It will be accepted as satisfactory only if it certifies that within the last three years a successful vaccination has been performed. If this requirement cannot be fulfilled by the student's home physician, opportunity for immunization will be offered by the Cornell medical staff during the student's first semester, with the cost to be borne by the student. If a student has been absent from the University for more than three years, immunity will be considered to have lapsed and a certificate of revaccination must be submitted.

The University Health Services strongly recommend that all graduate students be immunized against tetanus before entering the University. Students may, however, obtain initial and all booster tetanus toxoid immunizations at the Gannett Clinic for a nominal charge.

HEALTH HISTORY. Graduate students, when accepted, must submit *health histories* on forms supplied by the University. These should be returned promptly to the Gannett Medical Clinic. A University physician will review the material before it becomes part of the student's permanent health record. All information given is confidential. After arrival at Cornell, if the medical history indicates a need, a student will be given an appointment to consult a physician at the Clinic. When a student has been away from the University for more than a year, he must, upon reentrance, submit an interim health history on a University form.

X RAY. Every student is required to have a chest x ray. Opportunity to satisfy this requirement is given during the student's first week on campus. The cost of the x-ray examination is included in the General Fee. When a student who has been away from the University for more than a year wishes to reenter, he must, at his own expense, once more fulfill the chest x-ray requirement.

HEALTH SERVICES AND MEDICAL CARE

Health services and medical care for students are centered in two Cornell facilities. The Gannett Medical Clinic (outpatient department), 10 Central Avenue, and the Sage Infirmary.

Students are entitled to unlimited visits at the Clinic. Appointments with individual doctors at the Clinic may be made by calling or coming in person. (An acutely ill student will be seen promptly whether he has an appointment or not.) Students are also entitled to laboratory and x-ray examinations indicated for diagnosis and treatment, hospitalization in the Sage Infirmary with medical care for a maximum of fourteen days each term, and emergency surgical care.

On a voluntary basis, insurance is available to supplement the services provided by the General Fee. For further details see the *Announcement of General Information*. If, in the opinion of the University authorities, the student's health makes it unwise for him to remain in the University, he may be required to withdraw.

If a student prefers to consult a private physician rather than go to the Clinic, or to have the services of a private doctor while a patient in Sage Infirmary, he must bear the cost of these services.

LIVING ARRANGEMENTS

DORMITORY ACCOMMODATIONS. The University has established Sage Hall as a graduate residential center. Its dormitory facilities accommodate approximately 75 men in the north side of the building and 115 women in the south side. The Graduate Center, which is available for use by graduate students and faculty, also contains a cafeteria seating 200, study rooms, and lounges. In addition, Cascadilla Hall has accommodations for approximately 160 single graduate men.

Applications for dormitory accommodations may be obtained any time after January 1 for the coming academic year by writing the Department of Housing and Dining Services, 223 Day Hall.

FAMILY ACCOMMODATIONS. The University has three apartment developments for married students and their families. They are Cornell Quarters, Pleasant Grove Apartments, and Hasbrouck Apartments, with housing for a total of 420 families. All apartments are unfurnished. For further information and application, write to the Department of Housing and Dining Services, 223 Day Hall.

OFF-CAMPUS HOUSING. The Department of Housing and Dining Services, 223 Day Hall, maintains files of voluntarily listed accommodations for use of students and staff members who call at the office. Because the list of available accommodations is constantly changing, it is not practical to mail listings, nor is it feasible to maintain a waiting list of persons seeking accommodations.

MOTOR VEHICLES

The University does not encourage student use of motor vehicles but recognizes that in certain cases it may be necessary. University regulations apply to all types of motor vehicles, including automobiles, motorcycles, motor bikes, and motor scooters.

Every student who owns, maintains, or for his own benefit operates a motor vehicle in Tompkins County, must register it with the Safety and Security Division, even though that vehicle may be also registered by faculty, officers, or employees. All students must register motor vehicles within the prescribed time for University registration at the beginning of the fall term (*exception*: students who are not then subject to this rule but later become subject to it must register vehicles within five days after becoming so subject). Nonregistered vehicles may not be parked on campus at any time. Students entering the University for the spring semester or reentering after a period of absence must register motor vehicles with the Safety and Security Division at the time of, or within the time for, general registration.

Every student who has a motor vehicle must comply with the following requirements: (1) the student must be legally qualified to operate a motor vehicle in New York State; (2) the vehicle must be registered in New York State or legally qualified to be operated on the highways of New York State; (3) the vehicle must be effectively insured against public liability for personal injury and property damage for the minimum of \$10,000–\$20,000–\$5,000, for the duration of such registration and while the vehicle is under the control of the registering student; (4) the student registration fee covering the fall and spring terms, or any part thereof, is \$4 and is due and payable in the Treasurer's Office on the same date as tuition and other fees. In case of late registrants, the fee will be due within a week after such registration. A fine is levied if the vehicle is not registered within the specified time.

No student may park his motor vehicle on the campus from 8:00 A.M. to 5:00 P.M. Monday through Friday, or from 8:00 A.M. to 1:00 P.M. Saturdays. Certain areas are restricted twenty-four hours a day; such areas include "no parking" zones, dormitory parking areas, and areas listed as limited at all times to holders of specific permits.

Special area parking permits are issued only after careful consideration by the Safety and Security Division Office.

The student's registration in the University is held to constitute an agreement on his part that he will abide by all its rules and regulations

with regard to traffic and parking or suffer the penalty prescribed for any violation of them.

Correspondence regarding motor vehicles should be addressed to the Board on Traffic Control, G-2 Barton Hall.

CAREER, SUMMER PLANS, AND PLACEMENT CENTER

The Career, Summer Plans, and Placement Center at 14 East Avenue is a clearing house for jobs in business, industry, government, and teaching, as well as for study programs leading to the professions. It serves as an information center for careers, teacher placement, fellowships, techniques of job hunting, and summer experiences (work, study, travel, service projects). More than a thousand recruiters visit the campus each year representing employers and graduate schools. Students and faculty may be kept up to date on the activities of the Center by registering to receive its *Newsletter*. Alumni may be served by either the *Job Bulletin* or the *Registrants Available Bulletin*. Through the support and cooperation of the Cornell Club of New York and the Cornell Society of Engineers, a placement office is maintained in New York City primarily for alumni living in that area.

TUITION AND FEES

Tuition and fees¹ become due when the student registers. Any student who fails to pay his tuition, fees, and other indebtedness to the University at the Treasurer's Office within the prescribed period of grace will be dropped from the University unless the treasurer has granted him an extension of time to complete payment. The treasurer is permitted to grant such an extension when, in his judgment, the circumstances of a particular case warrant his doing so. For any such extension the student is charged a fee of \$5. A reinstatement fee of \$10 is assessed against any student who is permitted to continue or return to classes after being dropped from the University for default in payments. The assessment may be waived in any instance for reasons satisfactory to the treasurer and the registrar when such reasons are set forth in a written statement.

Students registering at any time during the last ten weeks of any term are required to pay tuition at the rate of 10 percent of the regular tuition of the term for each week or fraction of a week between the day of registration and the last examination day of the term.

Tuition or fees may be changed by the trustees at any time without previous notice.

REGISTRATION DEPOSIT. Every applicant for admission must make a deposit of \$35 after receiving notice of acceptance, unless he has

1. All statements in this section are prepared by the University treasurer, who alone is authorized to interpret them.

previously matriculated as a student at Cornell University. This deposit is used at the time of first registration to pay the matriculation fee, chest x ray, and examination-book charge, and covers certain expenses incidental to graduation if the student receives a degree. The deposit will not be refunded to any candidate who withdraws his application after May 10 or more than fifteen days after his admission approval. This fee is *not* covered by University fellowships, scholarships, or assistantships.

TUITION. Tuition is \$200 a term for all students registered in the Graduate School whose major chairman is on the faculty of the statutory divisions² of the University. Those with major work in the School of Nutrition, the Field of Education, and the Division of Biological Sciences also pay \$200 a term. All students in other divisions must pay tuition of \$910 a term. Tuition is payable at the beginning of each term.

Upon recommendation by the appropriate college dean and by action of the controller, a member of the teaching or scientific staff of one of the statutory schools or colleges may obtain waiver of tuition in the Graduate School if his major field of study is in a statutory school or college.

Assistants in statutory schools or colleges who are on twelve-month appointments and who are registered for Summer Research for credit in the Graduate School may be recommended for waiver of tuition during the summer period under the above limitations. This waiver of tuition does not apply if the student registers in the Summer Session or is not doing productive work for the department.

Any student who is to receive less than full residence credit because of his employment should apply for proration of tuition on forms procurable at the Graduate School Office. *Tuition is based on residence eligibility.* See pp. 10-11.

GENERAL FEE. A fee of \$287.50, payable at the beginning of each term, is required of each student registered in the Graduate School whose major chairman is on the faculty of one of the statutory divisions,³ the School of Nutrition, the Field of Education, or the Division of Biological Sciences. All others pay a fee of \$265.00. This General Fee contributes toward the services supplied by the libraries, Clinic and Infirmary, and the student union in Willard Straight Hall, and pays a portion of the extra cost of laboratory courses and general administration.

A student who is regularly registered in the Graduate School for either one or both terms of the academic year and has paid the above fee is entitled to these services while in residence during the summer immediately following the academic year without payment of an additional General Fee. If such a student registers with the University during the summer, he is liable for payment of any tuition and other fees, and

2. The statutory divisions are the Veterinary College, the Colleges of Agriculture and Human Ecology, and the School of Industrial and Labor Relations.

3. The statutory divisions are the Veterinary College, the Colleges of Agriculture and Human Ecology, and the School of Industrial and Labor Relations.

must present his ID card at the time of payment of these charges in order to claim exemption from payment of the General Fee.

A graduate student who returns to the University to present his thesis and to take the final examination for an advanced degree, all other work for that degree having been previously completed, must register as a "Candidate for Degree Only" and pay a fee of \$35.

OTHER FEES

THESIS FEE. Each doctoral candidate must pay \$30 at the time of depositing the approved thesis and abstract in final form. This fee covers the cost of preparing a master microfilm of the entire thesis; of publishing the abstract in the bimonthly periodical *Dissertation Abstracts*; of mailing the microfilm and abstract to the microfilm publisher; and of binding both copies of the thesis for deposit in the University Library.

LIMITED REFUNDS. Part of the tuition and General Fee will be refunded to students who officially withdraw or take a leave of absence during the first nine weeks of a term. A student arranges for a leave of absence or withdrawal at the Graduate School Office. Students who withdraw are charged tuition and the General Fee at the rate of 10 percent for each week or fraction of a week from registration to the effective date of withdrawal. No charge is made if the student begins his leave of absence or withdraws within six days of registration. No part of the registration or matriculation fee is refundable.

SUMMER SESSION. Graduate students who attend classes in the Summer Session must register both in the Graduate School and in the Summer Session; they must pay the tuition and fees listed in the *Announcement of the Summer Session*.

SUMMER RESEARCH. Students registered for Summer Research pay one-half of the General Fee for a registration period of not more than eight weeks and the full fee for a longer registration period unless they were regularly registered in the Graduate School during the previous academic year. For those students eligible for and desiring residence, a prorated tuition is charged in accordance with the fraction of a residence unit to be earned, based on the tuition in effect for the subsequent academic term.

IN ABSENTIA. A graduate student registered *in absentia* will pay a fee of \$35 each term.

ADVANCED PROFESSIONAL DEGREES

Advanced professional degrees are designed as preparations and training for a special profession.⁴ The admissions, requirements, and curricula for such degrees, as approved by the Graduate Faculty, are announced by the faculty of a professional school or college, which, for this purpose, acts as a Division of the Graduate Faculty. Degrees are awarded upon recommendation of the Division to the Graduate Faculty. Detailed information regarding admission or academic requirements for any professional degree is included in the *Announcement* of the separate school or college in which the degree is offered. Inquiries addressed to the Graduate School will be forwarded to the proper official. The professional degrees listed below are approved by the Graduate Faculty.

AGRICULTURE

MASTER OF AGRICULTURE (M.Agr.). This degree is intended for professional agriculturists seeking opportunity to study in depth some subject or problem which is pertinent to their profession. Detailed information may be obtained from Director Herbert L. Everett, 192 Roberts Hall.

ARCHITECTURE, FINE ARTS, CITY AND REGIONAL PLANNING

The following three degrees are administered by the Division of Architecture, Fine Arts, and Planning of the Graduate School. Inquiries should be addressed to the listed professor.

For more detailed information on these degrees, as well as those in architectural structures, architectural history, and art, see also the Architecture section under *Fields of Instruction*.

MASTER OF ARCHITECTURE (M.Arch.). Training in urban design. Only graduates of a five-year professional program in architecture or graduates of a program in city planning or landscape architecture are admitted as candidates. (Professor Colin Rowe.)

MASTER OF FINE ARTS (M.F.A.). Advanced training in the practice of painting, sculpture, or graphic arts. (Professor Jason Seley.)

4. The following are advanced degrees which are also first degrees of a school or college and therefore are not subject to the jurisdiction of the Graduate Faculty. For information regarding them, address the school or college indicated.

Master of Engineering (Aerospace)	Graduate School of Aerospace Engineering
Master of Business Administration {	Graduate School of Business and Public
Master of Public Administration {	Administration
Doctor of Law	Law School
Doctor of Medicine	Medical College, New York City
Doctor of Veterinary Medicine	Veterinary College

MASTER OF REGIONAL PLANNING (M.R.P.). Training for a professional career in the field of city planning or regional planning. (Professor Kermit C. Parsons.)

COMMUNICATION ARTS

Master of Communication Arts (M.C.A.). The focus of this program is more on the *strategic application* of communication knowledge and technology, rather than on technical competence in media operation. The curriculum is designed for those students who wish to work with agencies in which organized public communication is a key concern. Emphasis is placed on three key elements: (1) analysis of what is known about the communication process, (2) exploration of the potential of current and new communication techniques and technology, and (3) application of the first two elements to specific communication problems.

EDUCATION

Two professional degrees are administered by the Field of Education of the Graduate School. The programs leading to each of the degrees include courses, seminars, projects, and investigations which will develop the student's ability to perform acceptably the professional duties required of the several types of educational specialization.

MASTER OF ARTS IN TEACHING (M.A.T.). This program is designed for and limited to those preparing for teaching in elementary and secondary schools. The student and his Special Committee will select those courses and seminars in his teaching specialty and in Education which are deemed most appropriate for developing competence as a teacher. The student will be required to demonstrate his or her teaching skill in a supervised field experience. Completion of a twelve-month program, or two and two-fifths residence units is required. Graduates of a teacher-training program are not eligible for this degree.

DOCTOR OF EDUCATION (Ed.D.). The program for this degree is designed to prepare the candidate within a broad cultural context for positions of professional leadership in education. The program of studies must include advanced work in each of the following: educational psychology, history or philosophy of education, educational measurement and statistics, and research in education. At least fifteen hours of credit must be earned in courses other than those in professional education. A minimum of sixty-five credit hours beyond the Bachelor's degree is required, of which thirty-five hours should be completed beyond the Master's degree or its equivalent. A candidate is required to complete a minimum of five residence units beyond the Bachelor's degree and a year of directed field experience.

Professional Teaching

MASTER OF SCIENCE FOR TEACHERS (M.S.T.). This is a coordinated program of training in the biological and physical sciences for practicing teachers. Each degree candidate must satisfy a broad core program in mathematics and science and complete advanced work in his selected Field of study. This degree is administered by the Division of Professional Teaching of the Graduate School. Detailed information may be obtained from the Graduate School Office, Sage Graduate Center.

ENGINEERING

The degree of Master of Engineering is administered by the Engineering Division of the Graduate School. Specially oriented graduate programs of study are in the areas of agricultural, chemical, civil, electrical, industrial, materials, mechanical, and nuclear engineering, and in engineering physics. The following titles designate the professional Master's degrees offered in engineering: Master of Engineering (Agricultural), Master of Engineering (Chemical), Master of Engineering (Civil), Master of Engineering (Electrical), Master of Engineering (Engineering Physics), Master of Engineering (Industrial), Master of Engineering (Materials), Master of Engineering (Mechanical), Master of Engineering (Nuclear). The Graduate School of Aerospace Engineering administers the Master of Engineering (Aerospace) degree program.

The general requirements for the degrees listed above are:

1. A minimum of thirty credit hours of advanced technical course work in the specific field or in related subjects.
2. A minimum of three credit hours (included in the above) of engineering design experience involving individual effort and formal report.
3. A minimum grade point average of 2.5 and a minimum final grade of C minus for all courses counting toward the degree.

There are no residence requirements, although all course work must, in general, be completed under Cornell University staff instruction. The degree requirements must normally be completed within a period of four calendar years.

Graduates of Cornell University who hold Bachelor of Engineering degrees may be granted up to fifteen hours credit for advanced courses taken during their fifth undergraduate year, provided they enter the Master of Engineering program not later than the fall term following the sixth anniversary of their receiving the Bachelor of Engineering degree.

The *Announcement of the College of Engineering* should be consulted for further details on the professional Master's programs in the various fields.

ENGLISH

MASTER OF FINE ARTS (M.F.A.). The degree of Master of Fine Arts in creative writing is designed to prepare candidates for careers in professional writing or in the teaching of creative writing. The program is administered by a specially appointed committee of the Department of English, acting as a Division of the Graduate School.

INDUSTRIAL AND LABOR RELATIONS

MASTER OF INDUSTRIAL AND LABOR RELATIONS (M.I.L.R.). The four-semester program leading to this degree provides a basic course of graduate study for those with professional interests in industrial and labor relations and further provides limited opportunities for specialized professional study where broad competence has been established. This degree is administered by the Division of Industrial and Labor Relations of the Graduate School. More information may be obtained by writing to: Graduate Field Representative, School of Industrial and Labor Relations, Ives Hall.

LAW

The following two degrees are administered by the Division of Law of the Graduate School. The *Announcement of the Law School* should be consulted for a complete description of the program and requirements.

MASTER OF LAWS (LL.M.). This degree is intended primarily for the student who desires to increase his knowledge of the law by working in a specialized field.

DOCTOR OF THE SCIENCE OF LAWS (J.S.D.). This degree is intended primarily for the student who desires to become a proficient scholar by original investigation into the functions, administration, history, and progress of law.

MUSIC

The following two degrees are appropriate for mature composers who seek further professional training as well as knowledge of the other arts and humanities, both to enrich their creative perspectives and to prepare them for the teaching of composition and theory at the university level.

MASTER OF FINE ARTS (M.F.A.)

DOCTOR OF MUSICAL ARTS (D.M.A.)

These degrees are administered by the Department of Music, acting as a Division of the Graduate School for this purpose. More information may be obtained from Professor Robert M. Palmer, 218 Lincoln Hall.

NUTRITIONAL AND FOOD SCIENCE

The following two degrees are administered by the faculty of the Graduate School of Nutrition acting as a division of the Graduate School. More information may be obtained by writing to: Secretary, Graduate School of Nutrition, Savage Hall.

MASTER OF NUTRITIONAL SCIENCE (M.N.S.). This program emphasizes fundamental study in the basic biological sciences that can lead to specialization in such areas as nutritional biochemistry, human and clinical nutrition, experimental or animal nutrition, and public health and international nutrition. The program is open to students who have had no previous course work in nutrition. For candidates interested in the biological sciences, the program serves as a valuable preliminary for graduate study for the Ph.D. degree in such areas as biochemistry and physiology, as well as human or animal nutrition.

MASTER OF FOOD SCIENCE (M.F.S.). The fundamental sciences, chemistry, biochemistry, and bacteriology, that are involved in food processing and utilization, are emphasized. Electives are available to meet individual needs in engineering, economics, marketing, business administration, and international programs. The specialized training serves as a preparation for technical work as related to the food industry or for more advanced graduate study.

The *Announcement of the Graduate School of Nutrition* should be consulted for further details on the professional Master's degree programs.

THEATRE ARTS

MASTER OF FINE ARTS (M.F.A.). The degree of Master of Fine Arts in theatre arts is intended for students who wish to increase their professional competence as actors or directors through a studio-oriented program. It is administered by the Department of Theatre Arts, acting as a Division of the Graduate School for this purpose.

VETERINARY MEDICINE

DOCTOR OF SCIENCE IN VETERINARY MEDICINE (D.Sc. in V.M.). This degree is characterized by a professional rather than a general research objective, and it is designed especially for experienced persons in the basic and clinical sciences who need more specific, advanced, scientific, and professional knowledge in order to equip themselves for careers in teaching and research. This degree is administered by the Division of Veterinary Medicine of the Graduate School.

SPECIAL RESOURCES FOR RESEARCH AND ADVANCED STUDY

The descriptions below are limited to major general facilities at the service of graduate students in any of a variety of fields of instruction. In addition, substantial collections and facilities, in many instances unique, have been assembled for the use of graduate students. Although the facilities cannot be described adequately in this *Announcement*, some of them are mentioned in the statements given under the Fields of Instruction on pp. 53 ff.

CORNELL UNIVERSITY LIBRARIES

The libraries are among the principal facilities in the University's program of graduate studies. The total number of volumes at Cornell is now over 3,000,000 and that figure increases by about 175,000 each year. For the convenience of students and faculty, the holdings are organized into a controlled system of distinct libraries. Some of the libraries are large; some have limited holdings. Some are general; some selective. Each library, whether within one of the colleges or housed in a building of its own, is situated where its books and its facilities lie most easily available to those who use them most. The libraries, whatever their nature, have been developed over many years by scholarly librarians and professors with the view of achieving breadth and depth in the central libraries, utility and coherence in the specialized ones.

The University's libraries offer support for graduate studies at several levels. They provide basic readings in virtually all subjects, collateral studies for classroom and seminar instruction, and highly specialized materials for advanced students. An unusually rich collection of reference works, both modern and antiquarian, expedites both the daily study and dissertational research. Of journals and periodicals, about 35,000 titles are available, most of them in complete runs, some of them in multiple copies, all of them immediately available. Special departments are maintained for maps, microtexts, documents, newspapers and other such collections.

To most graduate students, Olin Library, designed primarily as a research library, becomes the most familiar. Olin Library, completed in 1961, offers every modern library facility for its readers. The building is completely air-conditioned, scientifically lighted, comfortably furnished, and organized for efficient operation. It provides easy access to the book stacks, convenient photocopying facilities, and a comfortable lounge area for graduate students. Congestion is eliminated not only because of architectural design but also because undergraduates have their own open-stack library in a separate building. A graduate student whose work has advanced to the writing stage may apply for use of a carrel adjoining the book stacks in order to facilitate completion of his dissertation. Olin Library is open in term time from 8:00 A.M. to 12:00 P.M. weekdays, and from 1:00 P.M. to 12:00 P.M. Sundays.

Within Olin are a number of special collections likely to be of particular interest to advanced students of the social sciences and the humanities. The Department of Rare Books houses several distinguished collections, among them books and manuscripts relating to Dante, Petrarch, Wordsworth, Joyce, Shaw, and other literary figures. The Noyes Collection is rich in American historical documents, especially those pertaining to Lincoln and the Civil War. Students in the social sciences will also find extraordinarily interesting manuscripts and books in the collections of slavery and abolition, of witchcraft, of the French Revolution, and of the life and times of Lafayette. Long familiar to professional scholars are the Wason Collection on China and the Chinese, the Old Icelandic Collection, and collections on Japan and Southeast Asia. The History of Science Collections include the Adelman Library of Embryology and Anatomy, and the library of the French scientist, Lavoisier. The Collection of Regional History and Cornell University Archives is a manuscript depository with total holdings of more than 14,000,000 items. These manuscripts relate to all aspects of the economic, political, and social history of this region and the areas historically connected with it. Here, too, are the documents and manuscripts relevant to the founding and development of Cornell University. In addition to the collections in Olin Library, many of the college and department libraries also contain materials unique in their respective fields. Curators and reference librarians in all the libraries are available for counsel concerning the availability and use of research materials.

The University libraries in aggregate consist of Olin Library, as mentioned, Uris Library for undergraduates, the Physical Sciences Library, the Mann Library of Agriculture and Home Economics, and the libraries of the following colleges and schools: Fine Arts, Business and Public Administration, Engineering, Hotel Administration, Industrial and Labor Relations, Law, Medicine (in New York City), and Veterinary Medicine. Added to these are the libraries of academic divisions and departments, together with those of the Agricultural Experiment Station at Geneva, New York.

INTERNATIONAL STUDIES PROGRAMS

Center for International Studies

The Center for International Studies has as its primary function the coordination and support of the international activities of Cornell University. In addition to its role as a link between the activities of the specialized programs, the Center endeavors to facilitate and encourage research and teaching dealing with international affairs and to serve as a focal point for their discussion. The Center brings to Cornell visiting faculty, postdoctoral research fellows, and distinguished academic and professional personnel in the area of international affairs who give interdisciplinary courses and seminars. Through the use of the perma-

nent Cornell faculty, the Center is developing a teaching program at the undergraduate and graduate levels where it can usefully add to the regular offerings of separate schools and departments.

Students interested in foreign area studies or in international problems will find that the flexibility of both undergraduate and graduate requirements permits considerable latitude in selecting subjects. Appropriate courses of study can be selected from the regular offerings of various departments of the University. For example, in the College of Arts and Sciences the Department of Government offers instruction in comparative government, international relations, and international law and organization; in the Department of Economics there are offerings in international economics, economic development, and international trade. The College of Agriculture offers courses in the economics of agricultural development, international agriculture, and rural sociology. The School of Business and Public Administration offers courses in international development and comparative administration. The School of Industrial and Labor Relations offers courses in international and comparative labor relations.

The graduate student seeking specialized foreign-area knowledge may arrange a minor in one of the interdisciplinary area programs: Asian Studies or Latin American Studies. It is also possible to pursue an area interest in African Studies, European Studies, or Soviet Studies.

The continued growth of the international programs has been accompanied by the creation of an outstanding and comprehensive infrastructure of staff, library, language facilities, and other necessary resources.

The work of the Center and of associated programs and activities is more fully described in the Center's *Annual Report of International Studies at Cornell University* and the *Announcement of the Center for International Studies*. Further information may be obtained from the Center's office in 217 Rand Hall.

African Studies

ADVISORY FACULTY COMMITTEE ON AFRICAN STUDIES: Thomas Poleman, chairman; Douglas Ashford, Harold Feldman, Milton Konvitz, Ian Macneil, Chandler Morse, Kathleen Rhodes.

Cornell University has substantial facilities for graduate study and research on Africa. Many members of the faculty in a variety of fields are qualified by research experience in Africa to provide instruction or guidance to students who wish to specialize in some aspect of African Studies, who plan to work there, or who are interested in a general or comparative knowledge of the area. Instruction and training in general linguistics are available for students expecting to deal with tribal peoples, and special courses on particular African languages (e.g., Ibo, Yoruba) have been given in recent years. Courses are regularly offered on the cultures and social systems of Africa and on the problems of economic, political and social development of the area. The University

libraries provide a good working collection of books, documents, maps, newspapers, and periodicals on Africa of sufficient scope to enable students and staff to carry on regional research. A representative group of African students is attracted to Cornell each year, most of whom are eager to discuss African life and problems with interested students from other areas.

Inquiries should be directed to: Professor Thomas Poleman, Chairman, Committee on African Studies, Warren Hall.

China Program

FACULTY: Knight Biggerstaff, Nicholas C. Bodman, Nai-Ruenn Chen, Chuen-tang Chow, John C. H. Fei, Ta-Chung Liu, John McCoy, David Mzingo, Charles A. Peterson, Harold Shadick, Judith M. Treistman, Martie W. Young.

The China Program provides comprehensive graduate-level training and sponsors a wide range of research. The faculty represent the following fields: anthropology, economics, government, history, history of art, linguistics, and literature.

Graduate students in the program take a major in one of the fields listed above. They are expected at an early stage to attain sufficient mastery of the Chinese language to permit use of Chinese sources in their courses and seminars and in their research.

The focus of much of the research and teaching in the Program is the society, polity, economy, culture, and arts of modern and contemporary China. Students with this concentration are also expected to develop a general knowledge of traditional institutions and culture. Students majoring in history concentrate on medieval or modern China; no chronological limits apply to those in the history of art, linguistics, or literature.

The China Program supports three projects: political organization, social change, and personality development; economic development within a Chinese cultural setting; and linguistic studies in Southeast China and in the southwest border regions. Research Assistantships are available to advanced graduate students working in these areas, and occasionally in other fields as well. London-Cornell Studentships are open to advanced Ph.D. candidates in the social sciences and humanities who are in the China Program. They are tenable for study during an academic year at the London School of Economics and Political Science or at the School of Oriental and African Studies of the University of London. Stipends include air fares and tuition and fees.

London-Cornell Field Research Grants are open to Ph.D. candidates whose interests directly concern problems of social change in East Asia. Grantees may conduct dissertation research in any part of East Asia, and stipends for this purpose include travel and research expenses.

National Defense Foreign Language Fellowships and Foreign Area Training Fellowships are tenable in the Program. Graduate students

may also apply for other assistantships, fellowships, and scholarships offered by the University and by its departments.

Additional information on the Program and the various fellowships and awards may be obtained by writing to: Director, China Program, 100-A Franklin Hall.

Program on Comparative Economic Development

The Program on Comparative Economic Development at Cornell University was founded in 1966 by a group of economists in the Department of Economics, the Department of Agricultural Economics, and the School of Industrial and Labor Relations. Its primary purpose is theoretical and empirical research into the causes and forces of economic development, emphasis being placed on the multiplicity and diversity of forms of the development phenomenon.

Several secondary benefits derive, or are expected to derive, from the activities of the Program. One is the educational feedback in the form of seminars, guest lecturers, and the availability of research scholarships to graduate students in the Department of Economics. Further, arrangements are being made for the establishment of regional research and educational centers in selected focal development countries.

The Program is not restricted to economists. On the contrary, it is hoped that as time goes on cooperation will be obtained from other fields. In fact, the philosophy of a wider basis of development science, not restricted to economics, is intended to become the central strength of the Program.

Additional information may be obtained by writing to: Professor Ta-Chung Liu, Director of the Program, Goldwin Smith Hall.

International Agricultural Development Program

Cornell University provides unusual scope and facilities for graduate-level study and research concerning development of the critical agricultural sector of newly developing nations. An integrated program of research and graduate training is available in the various biological, physical, and social sciences fields which are relevant to agricultural development.

A student preparing for work in international agricultural development majors in a specific Field. In addition to basic preparation in that Field, he may minor in the Field of International Agricultural Development. The student may take courses which help him in applying his knowledge to the special conditions of newly developing nations, consult with experienced faculty members in regard to such application, and pursue a research project for his dissertation which is relevant to the special problems of newly developing countries. In much of this

work the program in agriculture draws upon the strong international programs in other colleges of the University, including the area study programs and the varied offerings in modern languages.

Faculty experience in overseas work is continuously developed through work in College of Agriculture overseas programs and individual consulting assignments. Several faculty members, who devote themselves full time to research and teaching in international agricultural development, have built special programs of research and continuing contact with particular geographic areas. The environment for the International Agricultural Development Program is further enhanced by more than 250 foreign graduate students majoring in the various fields of studies represented by the College of Agriculture.

Substantial expansion has recently taken place in the international program of several departments. Most departments have a number of assistantships and teaching fellowships designed to finance graduate students while they work closely with the teaching and research program in international agricultural development. Doctoral candidates in these departments, who are interested in international agricultural development, generally do field research in newly developing countries for their doctoral dissertations.

Additional information may be obtained by writing to: Professor K. L. Turk, Director, International Agricultural Development Program, 102 Roberts Hall.

International Legal Studies Program

The Cornell Law School offers a program of concentrated study in international legal subjects. The full program is ordinarily pursued by J.D. candidates in their second and third years of regular law study, but all the courses in the Field are open to graduate students in law. Some of the courses are offered by visiting faculty members who come to the Law School under its program for distinguished foreign professors. A number of foreign scholars and students also come to Cornell for research and study in the comparative and international law fields. Other activities of the International Legal Studies Program have included faculty seminars in comparative law, summer conferences in public international law, and a program of speakers and seminars open to students. In addition, the Law School sponsors a small number of fellowships for foreign students to pursue graduate work in law.

For more detailed information, see the current *Announcement of the Law School*, the current *Annual Report of the Center for International Studies*, and the current *Announcement of the Center for International Studies*. Further information may be obtained by writing to: Professor Robert A. Anthony, Chairman, Graduate Study Committee, the Cornell Law School, or to the Director, Center for International Studies, 217 Rand Hall.

Latin American Studies Program

FACULTY: Donald K. Freebairn, director; Charles Ackerman, Frederick B. Agard, Solon Barraclough, Jerome S. Bernstein, Dalai Brenes, Loy Crowder, David Davidson, Tom E. Davis, Martin Dominguez, Matthew Drosdoff, Charles L. Eastlack, Rose K. Goldsen, Thomas Gregor, Eldon Kenworthy, Anthony G. Lozano, Thomas F. Lynch, Robert E. McDowell, James O. Morris, John V. Murra, Thomas Poleman, Bernard Rosen, Donald F. Solá, J. Mayone Stycos, H. David Thurston, William W. Whyte, Lawrence K. Williams, Frank W. Young.

The Latin American Studies Program enables the graduate student to develop specialized competence in the history, culture, social organization, and language of Latin American countries. The student majoring in a relevant discipline can minor in Latin American Studies.

Forty courses directly pertaining to Latin America are offered by the Departments of Agricultural Economics, Agronomy, Animal Science, Anthropology, Economics, Government, History, Housing and Design, Industrial and Labor Relations, Romance Studies, Rural Sociology, and Sociology. The courses constitute the basis for formulating programs leading to a graduate *minor* in Latin American Studies. Normally, five or six semester-long offerings satisfy the formal course requirements. In addition, the degree candidate minoring in Latin American Studies must exhibit proficiency in reading and speaking either Spanish or Portuguese.

Applications for scholarships, fellowships, or teaching fellowships should be made to the department in which the student is taking his major. Students minoring in Latin American Studies qualify for NDEA Title VI Modern Language Fellowships. Application forms may be obtained from the Graduate School.

Summer research travel grants and support for on-campus course work during the summer are available to selected graduate students through the Latin American Studies Program. Although thesis research may be supported by the Program, support should first be sought from the Foreign Area Training Fellowship Program, the Social Science Research Council, Fulbright-Hays, the Doherty Foundation, and the Organization of American States.

Because of the considerable volume of research on Latin America currently being carried out by Cornell faculty members, students will normally be afforded the opportunity of participating in ongoing projects while in residence and will generally be expected to do field work in Latin America at some stage of their graduate training. Major research projects are under way in the fields of Andean community development, comparative economic development, fertility and population, descriptive linguistics, and urbanization.

Additional information may be obtained by writing to: Donald K. Freebairn, Director, Latin American Program, Rand Hall.

Near Eastern Studies

ADVISORY FACULTY COMMITTEE ON NEAR EASTERN STUDY: Isaac Rabinowitz, chairman; A. Henry Detweiler, Alfred E. Kahn.

Students wishing to relate the work of their major or minor subjects to Near Eastern area or language studies should seek advice or information from the Faculty Committee on Near Eastern Studies. In a number of fields, the University's resources for specialized graduate study and research on countries of the Near East are of considerable value. Members of the Committee can provide suggestions regarding relevant courses in various subjects, assistance in planning research on the Near East, and guidance in applying for area training or research fellowships. Inquiries should be addressed to: Professor Isaac Rabinowitz, Chairman, Department of Semitic Languages and Literatures, 173 Goldwin Smith Hall.

South Asia Program

(Bhutan, Ceylon, India, Nepal, Pakistan, Sikkim)

STAFF: Gerald Kelley, director; Messrs. Douglas E. Ashford, Harold R. Capener, Arch T. Dotson, Gordon H. Fairbanks, Harold Feldman, James Gair, Leighton W. Hazlehurst, Michael Hugo-Brunt, Kenneth A. R. Kennedy, John W. Mellor, Stanley J. O'Connor, Morris E. Opler.

The increasing importance of the peoples of the Indian subcontinent and of the role they play in world affairs enhances the need for providing opportunities in America for training and research in the field of Indic studies. The South Asia Program at Cornell, dealing primarily with India, Pakistan, Ceylon, and Nepal, is organized and equipped to help meet this need. Since 1948 it has sponsored a series of research projects on India and Ceylon, and it has trained a distinguished group of younger American and South Asian scholars in South Asian area and language studies. The Program faculty includes members from agricultural economics, anthropology, government, history of art, human development and family studies, business and public administration, rural sociology, city and regional planning, and languages and linguistics. Sanskrit, Pali, Hindi, Urdu, Telugu, and Sinhalese are languages regularly offered at Cornell. Cornell participates in the interuniversity summer program which provides instruction in other South Asian languages and selected social sciences and humanities disciplines each summer on the campus of a member eastern university.

Qualified graduate students interested in specializing in the study of South Asia minor in Asian Studies with concentration on South Asia, in South Asian art history, or in South Asian linguistics. The doctoral candidate must have a reading knowledge of Hindi or, depending upon the subarea of his specialization, some other important language of South Asia.

RESEARCH AND FIELD TRAINING

The doctoral dissertations of students in the South Asia Program are normally based on research done in India, Pakistan, Ceylon, or Nepal. Students' field research may benefit from advice and guidance in the field by a program staff member. At least one member of the faculty of the South Asia Program has been in South Asia for each of the last several years. Cornell is a charter member of the American Institute of Indian Studies, which was organized to facilitate study and research in India by American advanced students and by faculty specializing in various aspects of Indian civilization and contemporary affairs. The University also maintains close links with a number of research agencies, programs, and institutions of higher learning, such as the Deccan College Postgraduate Research Centre, Delhi University, Osmania University (Hyderabad), and universities in Ceylon. Staff members of these institutions have provided valuable assistance to Cornell students working in India. There are opportunities for graduate students to become associated with Cornell-sponsored research in South Asia or to carry on independent research abroad. Every effort is made by the Program staff to aid qualified students to obtain financial support for a field training or research project in one of the countries of the area.

Research interests under the South Asia Program are focused largely on recent or contemporary developmental problems of the countries of the area—on changes taking place in the economic, political, social, religious, artistic, and intellectual life of the region. A long-term research project in progress in India is primarily concerned with the ramifying problems of introducing technological changes and the influence of such changes when adopted. For this research program, faculty and students in anthropology have carried on, since 1949, an extended and varied series of rural and urban community studies in several different regions of India from the Deccan into the Himalayan foothills. A major related project, the Cornell International Agricultural Development Program, which is supported by Ford Foundation funds, is concerned with the development of the entire agricultural sector of the Indian economy. With Ford Foundation support, Cornell is assisting Delhi University to become a major center in the field of linguistics. At the same time, other studies in urban renewal and regional planning, public administration, the role of government in cultural change, and recent movements in the arts and in religions and ideologies are in progress under faculty direction. Cornell is also making a special study of the Sinhalese language and of linguistic problems of Ceylon, a nation so far much neglected by American scholars. Research is also under way on Oriya and Telugu, important regional languages of India. The new nations of South Asia present so many problems for study that the areas of inquiry open to students and staff members are limited only by availability of research means.

FELLOWSHIPS AND ASSISTANTSHIPS

Fellowship and assistantship awards are available to qualified graduate students minoring in Asian Studies with a concentration on South Asia.

The South Asia Program fellowships are open to incoming graduate students with South Asia interests, and should be applied for by writing to: Director, South Asia Program, 221 Morrill Hall. These fellowships are normally given to provide supplementary support for student research projects, at Cornell or in the field. Students in the South Asia Program are also eligible for assistantships in their major discipline departments, for fellowships and scholarships offered by the Cornell Graduate School, for National Defense Foreign Language Fellowships, and for Foreign Area Training Fellowships. Additional information on financial aid may be obtained by writing to the director, at the address given above.

Southeast Asia Program

FACULTY: John M. Allison, Benedict R. Anderson, Arch T. Dotson, John M. Echols, Frank H. Golay, Alexander B. Griswold, D. G. E. Hall, Robert B. Jones, Jr., George McT. Kahin, Stanley J. O'Connor, Robert A. Polson, Robert M. Quinn, Lauriston Sharp, James T. Siegel, John U. Wolff, O. W. Wolters.

The Southeast Asia Program possesses substantial facilities for study and research on the graduate level and provides exceptional opportunities for general or specialized work on all of Southeast Asia in various disciplines of the humanities, social sciences, and some natural sciences, as well as in interdisciplinary area seminars. Instruction in the major languages of the area is an integral part of the graduate training of the Southeast Asia Program. Much basic and pioneering research remains to be done in this area, and the Southeast Asia Program is organized and equipped to help meet such needs.

Special intensive instruction in Southeast Asian languages is available during summer sessions. Entering graduate students intending to study one of these languages are encouraged to begin such study during the summer preceding registration in the Graduate School. Inquiries should be made as early as possible to the director of the Southeast Asia Program.

Southeast Asia Program fellowships are available on a competitive basis to graduate students. They carry stipends of up to \$3,200 plus tuition and General Fee, and are available only to qualified candidates for advanced degrees at Cornell. Competition for these awards is open to citizens of the United States or Canada, nationals of Southeast Asian countries, and, in exceptional cases, nationals of other countries.

The fellowships are available to applicants who are able to demonstrate a serious scholarly interest in Southeast Asian studies; who show the greatest promise of becoming qualified regional experts with specialization in a relevant discipline of the humanities, social sciences; or certain natural sciences; and who are admitted to the Cornell Graduate School for advanced work in such a discipline. Previous experience in Southeast Asia or in the study of that area is not necessarily required. It is important that the applicant be able to show that advanced work

in a major subject offered at Cornell, combined with work in the Southeast Asia Program, will make his future professional activities more effective; this requirement is particularly important for a student in the natural sciences.

Fellowships are normally awarded for one academic year. If the student's work during the first year has been of high caliber, reappointment is sometimes possible. In such cases, formal reapplication is expected from the student. The primary purpose of these awards is to encourage graduate students to acquire a substantial knowledge of Southeast Asia while majoring in one of the discipline fields of the Graduate School. Accordingly, they are usually offered only to students who take a minor in Asian Studies and participate fully in the Southeast Asia Program. The recipient of a fellowship may be asked to devote up to six hours a week under faculty supervision to work connected with the Program.

London-Cornell Studentships are available for advanced Ph.D. candidates in the social sciences and the humanities who have already had at least one year of resident study in the Southeast Asia Program. These fellowships are tenable for study during an academic year at the School of Economics and Political Science or the School of Oriental and African Studies in the University of London. Stipends range up to \$3,000 plus air fares and tuition and fees. London-Cornell Field Research Grants are open to Southeast Asia Program Ph.D. candidates in the social sciences and humanities after they have had appropriate training at Cornell, or at Cornell and London. They are tenable for up to twenty-two months for the purpose of dissertation research. Recipients of London-Cornell Field Research Grants may conduct research in any part of Southeast Asia. Stipends range up to \$12,000 for twenty-two months including travel and research expenses.

Cornell-Philippines Field Research Fellowships are available, under a grant from the Rockefeller Foundation, for advanced graduate students who plan to write dissertations in the social sciences or the humanities, based upon field research in the Philippines. Fellowship support is for ten to fifteen months in the Philippines and includes living costs, local transport, and roundtrip transportation from the United States for the graduate student and dependent wife or husband.

National Defense Foreign Language Fellowships, Title VI, are offered by the United States Office of Education for study during the academic year, the summer, or both. Application should be made to Sage Graduate Center, Cornell University. Information about Foreign Area Training Fellowships, administered by the Social Science Research Council, may be obtained by writing to the Foreign Area Fellowships Program, 444 Madison Avenue, New York, New York 10022. Graduate students may also apply for other fellowships, teaching fellowships, assistantships, and scholarships offered by the University and its departments.

Additional information on the Program and the various fellowships and awards may be obtained by writing to: Director, Southeast Asia Program, 108 Franklin Hall.

Soviet Studies

COMMITTEE ON SOVIET STUDIES: George Gibian, chairman; Urie Bronfenbrenner, M. Gardner Clark, Walter Galenson, Richard Leed, Walter Pintner, Myron Rush, George Staller.

OTHER FACULTY MEMBERS IN SOVIET STUDIES: Patricia Carden, Frederick Foos, Antonia Glasse, Boris Glasse, Martin Horwitz, Augusta Jaryc, Alla Novosilzova, Hugh Olmstead, Nicholas Troizkij, Marla Wykoff.

The University offers a number of courses and seminars on the Soviet Union as well as pre-1917 Russia. Instead of a separate area program, graduate students have a choice of majors and minors in the established Fields of the Graduate School. Some of the subjects focus on area specialization: Russian history, Russian literature, Slavic linguistics. Other subjects combine area specialization with a nonarea framework: comparative government, economic planning, regional planning, social psychology.

Graduate students pursuing Soviet Studies in any of these subjects are expected to attain proficiency in the Russian language either before entering the Graduate School or soon thereafter.

The University's academic activities related to Russia are coordinated by the Committee on Soviet Studies. The Committee also sponsors a colloquium for faculty members and graduate students in Soviet Studies. In the Soviet Studies Graduate Study in the John M. Olin Library, major reference works and key current periodicals from and about the U.S.S.R. are brought together.

The Committee on Soviet Studies selects a limited number of graduate students each year as research assistants. The Russian section of the Division of Modern Languages and the Department of Russian Literature also appoint several graduate students annually as teaching fellows in the Russian language. For other teaching fellowships, fellowships and scholarships, students apply directly to the Graduate School or to the department concerned. NDEA Title IV and Title VI Fellowships are available in various subjects.

FACULTY SPECIALIZATIONS

ECONOMICS: M. Gardner Clark, Walter Galenson, George J. Staller

HISTORY: Walter M. Pintner

LANGUAGES AND LINGUISTICS: Frederick Foos, Boris Glasse, Richard Leed, Mrs. Augusta Jaryc, Alla Novosilzova, Hugh Olmsted, Marla Wykoff

LITERATURE: Miss Patricia Carden, George Gibian, Miss Antonia Glasse, Martin Horwitz, Hugh Olmsted

POLITICAL SCIENCE: Myron Rush

PSYCHOLOGY: Urie Bronfenbrenner

Inquiries about fellowships and other aspects of Soviet Studies should be addressed to: Professor George Gibian, Chairman, Committee on Soviet Studies, Goldwin Smith Hall.

OTHER PROGRAMS AND STUDIES

American Studies

COMMITTEE ON AMERICAN STUDIES: S. Cushing Strout, chairman; Archie R. Ammons, LeGrace G. Benson, Jonathan P. Bishop, Stuart M. Brown, Jr., Douglas F. Dowd, Robert H. Elias, Robert T. Farrell, Heywood Fleisig, Paul W. Gates, Rose K. Goldsen, Andrew Hacker, Baxter L. Hathaway, Richard I. Hofferbert, Michael G. Kammen, Michael Kaufman, Walter LaFeber, Thomas W. Leavitt, John E. Martin, James H. Matlack, Dan E. McCall, James R. McConkey, Andrew J. Milnor, Arthur M. Mizener, Richard Polenber, Albert S. Roe, Clinton Rossiter, Joel H. Silbey, Walter J. Slatoff, James M. Smith, Fred Somkin, Gordon F. Streib, Robin M. Williams, Jr.

Although there is no formal program leading to a degree in American Studies, candidates for the doctorate in English and history will find ample opportunity to do interdisciplinary work in conjunction with a major in American Studies within their field. There are members of the staff in both fields who are professionally trained and currently active in the study of the interrelationships of American intellectual, literary, and social history, so that a student concentrating in American literature or American history may take advantage of the freedom permitted by Graduate School regulations and, in collaboration with his Special Committee, readily build an individual doctoral program that systematically embraces more than a single discipline. Inquiries concerning opportunities in this area should be addressed to: Professor S. Cushing Strout, Chairman, American Studies Committee, Goldwin Smith Hall.

Brookhaven National Laboratory

Cornell is one of nine eastern universities participating in Associated Universities, Inc. (AUI). Operating under contract with the Atomic Energy Commission, this corporation has the responsibility for the management of Brookhaven National Laboratory. The Laboratory provides unusual research facilities for studies in biology, chemistry, applied mathematics, medicine, physics, high energy particle physics, and reactor and nuclear engineering.

Graduate students may participate in research at Brookhaven by association with Cornell staff members who are engaged in research at the Laboratory. Members of a variety of science departments at Cornell are currently involved in programs at Brookhaven. The Laboratory also offers temporary summer appointments to a limited number of selected graduate and undergraduate students in science or engineering.

Center for Environmental Quality Management

The Center for Environmental Quality Management brings together the faculties of the Cornell Medical College in New York and the various

colleges and schools in Ithaca to study the manifold questions of environmental health in both urban and rural settings.

Current approaches to the modification and control of the environment, in concentrating on limited objectives such as air quality control, disease control, water quality control, pest control, food sanitation, occupational health, etc., have had limited success since they have been unable to take into account the interdependence of environmental health problems. The character and the urgency of the total environmental quality problem facing us appears insoluble short of an overall approach that will enable decision makers to consider simultaneously the significant variables and relationships relevant to the management of environmental quality.

Scientific management through systems analysis has begun to make it possible to consider these multiple relationships within the framework of common objectives and subject to predetermined constraints. It provides mechanisms by which various innovations can be examined in terms of their short and long-term effects upon the environment. Such an approach provides rational bases for establishing environmental quality goals and for the allocation of scarce resources to achieve these goals.

The Center is frequently able to provide predoctoral and post-doctoral fellowships for students interested in pursuing research topics in environmental health. For information regarding specific programs, write to: Professor Walter R. Lynn, Director, Center for Environmental Quality Management, 302 Hollister Hall.

Center for Housing and Environmental Studies

The purposes of the Center for Housing and Environmental Studies are to aid and guide basic research in the field of man's shelter and environment, to facilitate graduate study, and to aid the flow of information among colleges and departments and between the University and sources of information off campus. A small central staff assists in the initiation and conduct of projects.

The facilities of the Center for Housing and Environmental Studies are available to faculty members and graduate students in all Fields. Through the Center, students who cut across traditional lines of research may draw upon the knowledge and experience of specialists in such various subject areas as design, materials, equipment, structural methods, environment, family living, economics and finance, government, and health. The Director of the Center is Professor Glenn H. Beyer, West Sibley Hall.

The Division of Urban Studies of the Center has a broad range of research projects, with concentration in the areas of regional development, planning and heuristic gaming; and also has several publication series. The Division is under the direction of Professor Barclay G. Jones, associate director for urban studies.

Center for Radiophysics and Space Research

The Center for Radiophysics and Space Research unites research and graduate education carried on by several academic departments in the space sciences. It furnishes administrative support and provides facilities for faculty members and graduate assistants who are engaged in space research activities, and it offers opportunity for graduate students to undertake thesis work leading to the degrees of Master of Science and Doctor of Philosophy. A student's major professor can be chosen from the following Fields in the Graduate School: Aerospace Engineering, Applied Physics, Astronomy and Space Sciences, Chemistry, Electrical Engineering, Physics.

Thesis research in the following areas is now possible:

(a) Astronomy and astrophysics. Astronomical aspects of cosmic rays, gamma-radiation, x rays, neutrinos; cosmology; experimental studies and theory relating to the surface of the moon and the planets; processes in the interstellar gas; solar-system magnetohydrodynamics; stellar statistics; theory of stellar structure, stellar evolution, nuclear processes in stars.

(b) Atmospheric and ionospheric radio investigations. Dynamics of the atmosphere; incoherent electron scattering; study of refraction, scattering, attenuation due to the inhomogeneous nature of the troposphere and ionosphere; theory and observation of propagation of radio waves in ionized media such as the ionosphere.

(c) Radar and radio astronomy. Distribution and classification of radio sources; radar investigations of the moon and planets; solar radio observations; studies of gaseous nebulae.

(d) Space vehicle instrumentation. Instrumentation relating to lunar exploration; magnetic field measurements; tenuous gas and particle flux measurements; infrared observations from rockets.

The facilities of the Center include the lunar surface and electronics laboratory on the Cornell campus, the radio astronomy and ionospheric laboratories close to Ithaca, and the Arecibo Ionospheric Observatory in Puerto Rico. At Arecibo an extremely sensitive radio telescope and an unusually powerful space radar are available for use by qualified graduate students. In addition, certain facilities of Sydney University, Australia, are available through the Cornell-Sydney University Astronomy Center (see p. 46).

Center for Research in Education

The Center for Research in Education provides an institutional focus within the University for the interests of faculty members from different disciplines in educational research and development. In addition, the Center attempts to stimulate investigation of socially significant educational problems and to train students in educational research. At present, research projects in adult-child interaction and cognitive socialization, in language development and literacy, in science education, and in early school learning are under way. Research programs in mathematics education and in undergraduate education are being planned.

The Center provides predoctoral and postdoctoral training through research assistantships, training grants, and postdoctoral fellowships. For information write to: Professor Alfred L. Baldwin, Director, Center for Research in Education, Rand Hall.

Cornell-Sydney University Astronomy Center

The Center is an interuniversity organization designed to create a larger pool of facilities and skills for research in astronomy and related fields than would be separately available to either university. Graduate students can be interchanged between the two institutions whenever appropriate for the research work in which they are engaged. Both universities recognize research supervision extended by the sister university, and the time spent by a student on thesis work in the sister university can be accepted toward residence requirements with the proviso that the approval of the home research supervisor is given and also that the home university bylaws are not contravened.

The facilities available through the Center, in addition to those of Cornell's Center for Radiophysics and Space Research, are the one-mile by one-mile Mills Cross situated at Hoskinstown, New South Wales; the stellar intensity interferometer situated at Narrabri, New South Wales; the Criss-Cross, the Shain Cross, and Mills Cross situated at Fleurs, New South Wales; the Wills Plasma Physics Department, the Basser Computing Department, the Falkner Nuclear Department, and the facilities of the cosmic ray group at the University of Sydney. The Center includes H. Messel, R. Hanbury Brown, W. N. Christiansen, C. B. A. McCusker, and B. Y. Mills from the University of Sydney faculty.

Further information can be obtained from: Professor T. Gold, Joint Director, Cornell-Sydney University Astronomy Center, Space Science Building, Cornell University.

Developmental Studies

Specialization in this area normally involves participation in a program jointly sponsored by the Fields of Human Development and Family Studies, and Psychology. The program presently emphasizes cognitive development. Students interested in the program should apply to either the Field of Human Development and Family Studies or Psychology. Training in research skills in both Fields is recommended. Students admitted to the program fulfill the requirements of whichever Field they enter. Current research interests of the faculty include development of language, perception, thinking, intellectual development in natural settings, conceptual and affective behavior in infancy, cognitive socialization, and biological maturation. For further information see the description of the Fields of Psychology, and Human Development and Family Studies, or write to either Field Representative.

Division of Biological Sciences

The Division of Biological Sciences was established in 1964 to bring together into a single administrative unit a number of investigators and teachers representing a broad spectrum of interests in basic biology. Its members hold appointments in one or more of four schools and colleges but serve the University as a whole through the Division. The Division is responsible for all the undergraduate teaching of biology, including the establishment of requirements for the major in its various branches. It also has the primary responsibility for the promotion of research in basic biology, and its members engage in graduate teaching through participation in appropriate Fields in the Graduate School Faculty. At present the following subject areas are represented by separate sections of the Division: biochemistry and molecular biology; ecology and systematics; genetics, development, and physiology; microbiology; and neurobiology and behavior. A number of graduate fellowships, teaching fellowships, research assistantships, and traineeships are available through the Division. For further information, write to Professor Robert Morison, 201 Roberts Hall.

Materials Science Center

The Materials Science Center (MSC) at Cornell is an interdisciplinary laboratory created to promote research and graduate student training in all phases of the science of materials. The subjects of study represented in the MSC program are applied physics, chemistry, electrical engineering, materials engineering, materials science, mechanics, metallurgy, and physics.

The extent of the benefits a graduate student may derive from the MSC program depends on the actual research he pursues. If the student chooses to follow the more conventional course of becoming a specialist in one specific area, the MSC program could help him by providing new equipment, financial assistance through research assistantships, or, in some cases, the help of a technician to carry out routine measurements.

If the student wishes to follow a program of considerably more breadth than usual in his research training, the MSC program provides an additional advantage. Several central facilities have been set up where more specialized apparatus such as crystal-growing furnaces, high-pressure equipment, x-ray and metallography equipment, electron microscopes, etc., are available to all MSC members and their students. In addition to the equipment, expert advice on its use and the interpretation of the results will be available. In these central facilities, it is expected that the student will come in contact with students from other disciplines, resulting in a mutually profitable interaction.

The Office of the Director of the Materials Science Center, Professor R. E. Hughes, is in Room 627, Clark Hall.

Military Science, Naval Science, and Aerospace Studies

(ROTC, NROTC, and AFROTC)

The advanced course in military science (Army ROTC), naval science (Naval ROTC), and aerospace studies (Air Force ROTC) is open to graduate students who have satisfactorily completed a basic course in ROTC or who enroll in a two-year ROTC program. Successful completion of the two-year advanced ROTC course will qualify a graduate student for appointment as a second lieutenant in the United States Army, Air Force, or Marine Corps Reserve; or ensign, United States Naval Reserve; or as second lieutenant in the Regular Army or Air Force. Interested graduate students should consult the *Announcement of Officer Education* and apply to: Professor of Military Science, Professor of Naval Science, or Professor of Aerospace Studies (ROTC), Barton Hall.

Plasma Physics

Established in 1966, the Laboratory for Plasma Studies at Cornell enables students and faculty members to deal with plasma, electron, and laser physics on a unique, interdisciplinary basis. In the future, plasmas will provide power for our cities, will power spacecraft, will help us to explain the composition of the universe, and may unlock the energy resources of the sea. Nothing less than an integrated scientific and technological approach to these and other vital areas of plasma research is feasible.

The unified, interdisciplinary approach to plasma studies has added a new dimension to education at Cornell enabling the University to give the best counsel to graduate students who want to combine their knowledge of some field of science or engineering with work in plasma studies. A program now exists whereby graduate study in plasma physics is offered to students in aerospace engineering, applied physics, chemistry, electrical engineering, mechanical engineering, and physics.

Graduate research assistantships are available through the Cornell Laboratory for Plasma Studies as well as from several departments within the University. It is also possible to obtain positions as postdoctoral research associates with the Laboratory. Prospective graduate students should also consider applying for fellowships awarded on a national basis by the Atomic Energy Commission and the National Science Foundation. The deadlines for these programs are usually in the fall for the following academic year. For further information, write to: Professor Peter L. Auer, Director, Laboratory for Plasma Studies, Upson Hall.

Statistics Center

The methods of statistics find important applications in many diverse fields of research. It is therefore necessary that (1) subject matter spe-

cialists be able to obtain assistance in using or developing statistical theory, (2) students who intend to do research work in a particular field which makes extensive use of statistical methods receive adequate training in statistics, and (3) individuals be trained as statisticians.

The staff members of the various schools and colleges of Cornell University who are interested in the development and application of statistical methods are associated with the Cornell Statistics Center. A major responsibility of the Center is to provide a focal point to which individuals, projects, and departments may come to receive assistance and guidance with respect to the statistical aspects of research and training programs.

The acting director of the Center is Professor Philip J. McCarthy, Ives Hall.

Center for Water Resources and Marine Sciences

The Center is an interdisciplinary organization serving the entire University at the graduate study and research level. Its purpose is to promote and coordinate a comprehensive program in water resources planning, development, and management in such areas as the sciences, engineering, agriculture, law, economics, government, regional planning, and public health.

Its responsibilities are to undertake water resources research in engineering, in the physical, biological, and social sciences, and in the humanities; to encourage and contribute to graduate studies in water resources; to coordinate research and training activities in water resources; to encourage new combinations of disciplines in research and training which can be brought to bear on water resource problems; to disseminate the results of research; and to develop and operate central facilities which may be needed to serve participants in research and training.

Correspondence concerning the Center should be directed to: Professor L. B. Dworsky, Director, Center for Water Resources and Marine Sciences, Hollister Hall.

Correspondence related to graduate study in the Field of Water Resources should be directed to: Field Representative, Professor C. D. Gates, Hollister Hall.

SPECIAL FACILITIES AND SERVICE ORGANIZATIONS

New York State Agricultural Experiment Station at Geneva

The New York State Agricultural Experiment Station was established in 1880 to promote agriculture through scientific investigations and experimentation. It is located at Geneva, fifty miles from Ithaca, and has been under the administration of Cornell University since 1923.

Professors on the Geneva staff are eligible to serve as members of the Special Committees of graduate students along with professors on the Ithaca campus of the University. Normally the graduate training provided at Geneva consists of research experience and supervision of the student's work on a thesis problem. The formal course work of the student's training program is given on the Ithaca campus. Students who plan to do part of their graduate work at Geneva should correspond with their major advisers or with the dean of the Graduate School concerning regulations as to residence, Special Committees, etc.

The Station is equipped to care for graduate students in certain specific lines of research, viz., chemistry, economic entomology, food technology, microbiology, plant pathology, pomology, seed investigations, and vegetable crops. Ample facilities are available for graduate research under laboratory, greenhouse, pilot plant, insectary, orchard, and other field conditions.

Certain phases of the investigations now being conducted at the Station and other problems for which the facilities of the Station are suitable may be used as thesis problems by graduate students.

The director is Professor D. W. Barton, who may be addressed at the New York State Agricultural Experiment Station, Geneva, N. Y. 14456.

Office of Computer Services

The principal computing facility at Cornell is an IBM 360 Model 65 located at Langmuir Laboratory at the Cornell Research Park. The system is equipped for remote access of several kinds, and the operating system is designed so that very few users find it necessary to visit Langmuir. The primary terminals are high-speed reader-printers located in Upson, Clark, and Warren Halls. While these are remote job-entry and delivery devices rather than conversational terminals, they permit convenient access, job turnaround-time in terms of minutes, and the use of on-line files. Each of these terminals is the core of a small computing center, with auxiliary equipment, consulting assistance, reference material, and work space. In addition to these high-speed terminals, teletypewriter terminals are available to individual projects that require interactive capability.

Two IBM 1800 computers that control various real-time laboratory devices are also linked directly to the 360/65. These machines provide graphical input-output capability and an analog-digital interface.

This computing system is busy but not saturated, and use by graduate students is encouraged.

The Office of Computer Services is responsible for the operation of this system and for the provision of consulting and programming assistance. The Office cooperates with the Department of Computer Science in providing courses in programming and computing techniques. Both organizations employ a number of graduate students on assistantships and part-time appointments for this work.

For further information write to the Office of Computer Services, Langmuir Laboratory.

University Press

Cornell University Press, founded by Andrew D. White in 1869, was the first university press in America and is among the leaders in number of volumes published annually. The Press publishes scholarly books on nearly every academic subject, serious nonfiction of general interest, and advanced or experimental textbooks for universities. The imprint of Comstock Publishing Associates, a division of the Press, is placed on certain books in the biological sciences. The Press also publishes a paperbound series, Cornell Paperbacks. More than 20 percent of the books published by the Press in recent years were written by members of the Cornell University faculty. All printing for the Press is done under contract by various book manufacturing firms; the Press has no production facilities of its own.

Visual Aids

The University owns and operates the Photo Science Studios, which create or cooperate in the creation of photographic studies and visual aids of all kinds.

The extension services of the New York State Colleges, which form integral parts of the University, disseminate knowledge through an intensive program of publication, photography, and recording supervised by professional staffs. Materials produced by graduate students may find outlets through these channels.

Other Research Units

Some other research units allied with the University, either as wholly owned and operated divisions or as wholly or partially autonomous organizations with which the University has a working agreement, are the Sloan-Kettering Cancer Research Institute in New York City, through the Graduate School of Medical Sciences, and the Veterinary Virus Research Institute in Ithaca.

Cornell is also one of fourteen founding members of the University Corporation for Atmospheric Research which, under National Science Foundation support, operates the National Center for Atmospheric Research at Boulder, Colorado. In addition to Brookhaven National Laboratory, Cornell, as a member of Associated Universities, Inc., has access to the facilities of the National Radio Astronomy Observatory in Greenbank, West Virginia.

Further opportunities for formal study, field work, and independent research by Cornell graduate students are available in many institutions, laboratories, and libraries both in the United States and in other countries. For example, the Cornell-Harvard Archaeological Exploration at Sardis, Turkey, and the Museum of Northern Arizona at Flagstaff, Arizona, both provide opportunities for field research related to doctoral work of Cornell graduate students. Information on that kind of arrangement is available directly from the Field Representatives.

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. In June 1950, the trustees of Cornell University entered into an agreement with the Sloan-Kettering Institute for Cancer Research whereby a new division of the Medical College, namely, the Sloan-Kettering Division, was created for the purpose of offering additional opportunities for graduate study toward advanced degrees, thus extending the areas of the basic sciences.

That expansion of the New York City component of the Graduate School resulted in the establishment in January 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

DEGREES. The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, biochemistry, biomathematics, biophysics, biostatistics, cell biology, genetics, microbiology, neurobiology and behavior, pharmacology, and physiology.

FACILITIES. The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College and of the Sloan-Kettering Division. The five buildings of the Medical College, extending along York Avenue from Sixty-eighth to Seventieth Street in New York City, contain the lecture rooms, student laboratories, library, and research facilities for graduate and undergraduate work. The Sloan-Kettering Division is located in the Sloan-Kettering Institute and the Kettering Laboratory on East Sixty-eighth Street in New York City, and in the Walker Laboratory in Rye, New York. The special facilities and experienced investigators of the Sloan-Kettering Division offer ample opportunity for advanced graduate work in the basic science aspects of research related to cancer and allied diseases.

FINANCIAL ASSISTANCE. Predoctoral fellowships are available to qualified applicants. The fellowships may be renewed yearly providing the academic performance of the fellowship holders is satisfactory. Teaching fellowships and research assistantships are available to qualified graduate students in some departments of the Medical College. In addition to a stipend, the costs of tuition and fees are defrayed for those students receiving financial assistance.

FURTHER INFORMATION. Information on financial assistance and the entire program of the Graduate School of Medical Sciences is provided in the *Announcement of the Graduate School of Medical Sciences*. Requests for that Announcement should be addressed to the Graduate School of Medical Sciences, Cornell University, Medical College, 1300 York Avenue, New York 10021.

FIELDS OF INSTRUCTION

REPRESENTATIVES. Since instruction in the Graduate School is primarily individual, those interested in becoming students are encouraged to communicate with individual members of the faculty with whom they may want to study. Personal interviews in advance of formal application for admission are especially encouraged. For the benefit of those who are not acquainted with appropriate members in the Field or Fields of their interest, each Field has selected a representative, as director of graduate studies, to whom inquiries may be addressed.

ARCHITECTURE

Faculty: Ludlow D. Brown, Theodore M. Brown, Robert G. Calkins, Thomas W. Canfield, A. Henry Detweiler, Donald P. Greenberg, Michael Hugo-Brunt, Stephen W. Jacobs, Barclay G. Jones, Alexander Kira, Alfred Koetter, Kermit C. Parsons, Charles W. Pearman, John W. Reps, Colin Rowe, Francis W. Saul, Werner Seligmann, John P. Shaw, Roger Sherwood, David M. Simons, Stuart W. Stein, Oswald M. Ungers, Jerry A. Wells.

Field Representative: Stephen W. Jacobs, 114 West Sibley Hall.

MAJOR AND MINOR SUBJECTS

Architectural History
Architectural Science

Urban Design

The three programs in which graduate study in the Field of Architecture may be pursued are urban design, architectural science, and architectural history. The urban design program offers the degree of Master of Architecture; the architectural science program offers the degree of Master of Science; and the architectural history program offers both the Master of Arts and the doctoral degree. The nature and requirements of each of these programs are described in detail below. Graduate study is also offered in the Fields of Art and City and Regional Planning. Every applicant for graduate study is expected to select and identify in advance the program he intends to follow.

Foreign students whose undergraduate training has been completed outside the United States are admitted to provisional candidacy for the first semester, during which their qualifications to continue in their selected programs will be evaluated. In most cases, they should plan to spend at least four terms in residence for the Master's degree.

URBAN DESIGN. Students who have satisfactorily completed a five-year course in architecture at an approved institution, or its equivalent, may be admitted as candidates for the degree of Master of Architecture in the professional program of urban design.

Urban design is concerned, by way of an integrated approach, with solving, in architectural terms, the problems posed by city and regional planning. The program of study includes an interpretation of such course material from architecture and planning as will equip the student with an adequate conceptual framework for practice, and is particularly concerned with the three-dimensional definition of the urban environment in terms which give significance to the individual.

The program of study, cooperatively worked out between the faculties in the Fields of Architecture and City and Regional Planning, permits special treatment for the individual student. Normally, four semesters of study are required, and the student should not anticipate completing his studies in less than this time, though in certain special circumstances the requirements for a degree may be completed within a three-semester period. It is possible in individual cases, by specific arrangement in advance, to complete the requirements for both the Master of Architecture and Master of Regional Planning degrees in three years.

ARCHITECTURAL SCIENCE. Qualified students enrolled by the Graduate School in programs leading to the degree of Master of Science may elect architectural science as either a major or a minor subject, and those enrolled in programs leading to the degree of Doctor of Philosophy may elect it as a minor subject.

Students with undergraduate degrees in architecture, architectural engineering, or the various branches of engineering are likely candidates for this program. The program as it is organized is extremely flexible and can be arranged to meet the specific needs and desires of the individual student and to build on his prior technical preparation and competence. For those students who are applying with a straight engineering background, exposure to architectural disciplines would be included in the program of study.

The objectives of the graduate program in architectural science follow.

1. To afford an opportunity for students of architecture to expand their creative design potential by increasing their knowledge and understanding of the technologies in the building process.

2. To provide a framework within which students graduating in related technical disciplines (for example, civil, electrical, or mechanical engineering) can explore building science and technology related specifically to architecture. This training prepares students with such background to join the ranks of consultants well versed in the architectural implications of contemporary science.

This graduate program in architectural science started in the fall of 1967 and is an outgrowth of the program in architectural structures which began at Cornell in 1962. It attempts to broaden the scientific base of specialized graduate architectural education. The program includes work in acoustics, illumination, mechanical systems, materials technology, etc., but presently concentrates on architectural structures, industrialized housing, and computer applications in architecture.

A candidate for the Master of Science degree with a major in architectural science must satisfy the following requirements: (a) completion of the program of study prescribed by the student's Special Committee; (b) a minimum of two terms of residence; (c) presentation of a satisfactory thesis; and (d) passing of a final comprehensive examination.

Ordinarily more than two terms of residence will be required to complete the program of study, depending on the student's background and experience as they relate to his needs and interests. A portion of the student's program will consist of formal course work. Courses offered by the College of Architecture, Art, and Planning are shown below. In addition, a student may select courses offered elsewhere in the University, such as courses in civil engineering, engineering mechanics, mechanical engineering, electrical engineering, physics, computer science, housing and design, mathematics, etc.

Facilities include a well-equipped structural model laboratory and immediate access to the Cornell Computing Center (IBM 360).

ARCHITECTURAL HISTORY. Graduate work in architectural history may be undertaken by students whose undergraduate programs emphasized history, history of art, architecture, or related subjects. Architectural history may be elected as either a major or a minor subject by students enrolled as candidates for the M.A. or Ph.D. degree. All applicants resident in the United States must submit scores of the Graduate Record Examination Aptitude Test with their transcripts and other credentials.

To complete the requirements for the degree of Master of Arts specializing in architectural history, candidates must pass examinations in their major and minor subjects of study. Unless special conditions obtain, a reading knowledge of one approved foreign language must be demonstrated and a thesis submitted. To complete the requirements for the degree of Doctor of Philosophy with architectural history as their major subject, candidates must pass a comprehensive Admission to Candidacy Examination in the major and two minor subjects. A reading knowledge of two approved foreign languages must be demonstrated and a dissertation submitted.

The graduate program in architectural history is concerned with methods of scholarship and research, as well as with the development of architecture and related arts from the earliest times to the present day. A Special Committee is constituted for each student to advise on a program of course work and special studies suited to his interests and needs. An unusual feature of the program is the opportunity for the student to prepare for the teaching of the history of architecture in the context of the professional school of design. Opportunities are usually available for students to take part in special activities, such as the Cornell-Harvard Expedition to Sardis, Turkey. In cooperation with the Department of City and Regional Planning, coordinated programs are arranged to permit study of both the history of urban development and planning for the appropriate use and conservation of historic buildings.

Close coordination is maintained with the Department of History of Art in the College of Arts and Sciences, enabling students to benefit from courses and special studies in the history of art offered there. Programs in the history of interiors and of housing are available in the Department of Housing and Design of the College of Human Ecology. There is a cooperative program in archaeology involving several departments on the campus, and there are strong area programs with an interest in architectural history, including the Southeast Asia Program and the Slavic and Latin American Studies Programs. The Fine Arts Library of 55,000 volumes in Sibley Hall, the main building of the College of Architecture, Art, and Planning, provides resources for study and preparation of the thesis or dissertation. It is particularly strong in the areas of American architecture and of modern art and architecture. Additional materials on the history of architecture are available in the Olin Research Library and the Mann Library, described in the front section of this *Announcement*.

Faculty Interests

Ludlow D. Brown: architectural structure, limit design, ultimate stress theories, strategy of prestress as applied to buildings.

Theodore M. Brown: nineteenth- and twentieth-century architecture and art.

Robert G. Calkins: medieval and Renaissance architecture and art.

Thomas W. Canfield: architectural technology, design.

- A. Henry Detweiler: ancient and medieval architecture, transition from the classic to the architecture of the Early Middle Ages. Associate Director of the Cornell-Harvard Expedition to Sardinia, Turkey.
- Donald P. Greenberg: architectural technology, structural analysis and design, suspension structures, computer graphics, model analysis.
- Michael. Hugo-Brunt: history of architecture, landscape architecture, city planning, development of colonial towns, development of Georgian London and maritime settlements.
- Stephen W. Jacobs: American architecture; preservation programs; eighteenth-, nineteenth-, and twentieth-century European architecture.
- Barclay G. Jones: city and regional planning, socioeconomic and aesthetic aspects of architectural preservation.
- Alexander Kira: human engineering and psychological aspects of architecture.
- Alfred Koetter: urban design, housing.
- Kermit C. Parsons: urban design, land use, institutional planning, history of collegiate architecture.
- Charles W. Pearman: urban design, housing systems.
- John W. Reps: planning administration, history of city planning in the United States and Europe, development of urban America, design character of American cities.
- Colin Rowe: history of Renaissance and modern architecture, urban design, architectural criticism, contemporary European and American architecture.
- Francis W. Saul: structural steel and reinforced concrete building design, structural plastics and blast-resistant design.
- Werner Seligmann: urban design.
- John P. Shaw: urban design.
- Roger Sherwood: urban design.
- David M. Simons: urban design, planning of educational architecture.
- Stuart W. Stein: urban design, site planning, urban renewal, housing.
- Oswald M. Ungers: housing, urban design. Chairman of the Department of Architecture.
- Jerry A. Wells: urban design, housing.

Courses

URBAN DESIGN

In addition to the basic core courses listed below, the student will also take a substantial number of courses in city and regional planning (see the *Announcement of the Graduate School: Social Sciences*). The student may also take courses in related areas such as architectural history, architectural science, the psychology of perception, sociology, government, etc. For illustrative curriculum see the *Announcement of the College of Architecture, Art, and Planning*.

190-191. PROBLEMS IN URBAN DESIGN

Throughout the year. Credit as assigned.

The basic first-year design course for graduate students in urban design. Instruction consists of individual criticism over the drafting board.

192-193. PROBLEMS IN URBAN DESIGN

Throughout the year. Credit as assigned.

Continuation of 190-191.

ARCHITECTURAL SCIENCE

221. ADVANCED STEEL BUILDING DESIGN

Fall term. Credit three hours. Prerequisite: 204 and permission of the instructor. Mr. Saul.

Design and investigation of advanced systems of steel building structure, including plastic design of continuous beams and rigid frames, and composite steel beam and concrete slab construction.

222. REINFORCED CONCRETE BUILDING SYSTEMS

Fall term. Credit three hours. Prerequisite: 204 and permission of the instructor. Staff.

Review of methods and specifications for the design and construction of reinforced concrete building systems. Two-way framing systems. Precast concrete construction. Discussion of ultimate strength and yield line theories. Quality control of reinforced concrete. Exploration of new techniques in concrete construction. Selected topics.

223. BUILDING SUBSTRUCTURE

Spring term. Credit three hours. Prerequisite: 204 and permission of the instructor. Mr. Saul.

The principles of soil mechanics, subsurface exploration, and design of building foundations. Footings, piles, subgrade walls.

224. PRESTRESSED BUILDING STRUCTURES

Spring term. Credit three hours. Prerequisite: 204 and permission of the instructor. Mr. Brown.

The application of prestress as a fundamental strategy. Design of prestressed steel and concrete building elements.

223. SURFACE STRUCTURES

Spring term. Credit three hours. Prerequisite: permission of the instructor. Mr. Greenberg.

The qualitative and quantitative analysis and design of folded plate and thin shell architectural structures and suspension structures. The architectural implications and problems of curvilinear forms. Construction techniques. The potential of several materials for curved forms.

240. SPECIAL PROBLEMS IN ARCHITECTURAL SCIENCE

Either term. Registration and credit by arrangement. Staff.

250. ULTIMATE STRENGTH THEORY

Fall term. Credit three hours. Prerequisite: 204 and permission of the instructor. Mr. Brown.

A survey of flexural theory beyond the elastic range and the principles of limit design relationships applied to continuous steel and reinforced concrete construction.

260. COMPUTER APPLICATIONS IN ARCHITECTURE

Fall term. Credit three hours. Mr. Greenberg.

Designed to acquaint the student with the current uses and potentials of electronic computers in the architectural profession. No prior knowledge of computers is assumed. Topics will include: basic principles and logic of computing systems, computer programming (CUPL and FORTRAN), data processing, and computer graphics. Current applications of the uses of com-

puters in architecture will be demonstrated. Future applications will be explored in detail.

270. INDUSTRIALIZED BUILDING

Fall term. Credit three hours. Prerequisite: permission of the instructor. Mr. von Meiss.

Concepts of industrialized building research including historical development, organizational patterns of the building process, terminology of industrialized building and product-process classification, modular coordination, standardization and tolerances, performance specification and systems evaluation, research methodology, case studies.

271. SEMINAR IN INDUSTRIALIZED BUILDING

Spring term. Credit three hours. Prerequisite: 270 and permission of the instructor. Mr. von Meiss and other staff members.

Seminars, case studies, and research on industrialized building techniques.

280. ARCHITECTURAL SCIENCE LABORATORY

Either term. Credit four to six hours. Open to graduate students only. Staff.

Projects, exercises, and research in the architectural sciences.

290. THESIS OR RESEARCH IN ARCHITECTURAL SCIENCE

Either term. Credit as arranged. Staff.

804. THE PRACTICE OF ARCHITECTURAL SCIENCE

Spring term. Credit three hours.

ARCHITECTURAL HISTORY

430. THE ANCIENT NEAR EAST

Credit three hours. Prerequisite: permission of the instructor.

Architecture of the oldest historic civilizations associated with Western tradition, with emphasis on Egypt and Mesopotamia.

431. THE CLASSICAL WORLD

Spring term. Credit three hours. Prerequisite: permission of the instructor. Mr. Detweiler.

Architecture of the ancient Mediterranean civilizations, with emphasis on Greece and Rome.

432. THE EARLY MIDDLE AGES

Fall term. Credit three hours. Prerequisite: permission of the instructor. Mr. Detweiler.

Christian architecture of the first millennium, with emphasis on the early Christian and Byzantine.

433. ARCHITECTURE OF THE MIDDLE AGES (HISTORY OF ART 332)

Fall term. Credit four hours. Prerequisite: permission of the instructor. Mr. Calkins.

Medieval architecture in western Europe from the late Antique Period through the late Gothic, with emphasis on the Romanesque and Gothic.

434. ISLAMIC ARCHITECTURE

Spring term. Credit four hours. Prerequisite: permission of the instructor. Mr. Detweiler.

435. ARCHITECTURE AND PLANNING IN THE ORIENT
(PLANNING 704)

Fall term. Credit three hours. Prerequisite: permission of the instructor. Mr. Hugo-Brunt.

An introduction to the evolution of architecture and urbanization in India, China, Thailand, Cambodia, and Japan.

436. THE RENAISSANCE (HISTORY OF ART 349)

Spring term. Credit four hours. Prerequisite: permission of the instructor. Mr. Rowe.

European architecture of the fifteenth and sixteenth centuries, with emphasis on Italy.

437. THE BAROQUE

Spring term. Credit four hours. Prerequisite: permission of the instructor.

European architecture of the seventeenth and eighteenth centuries.

438. AMERICAN ARCHITECTURE

Spring term. Credit four hours. Prerequisite: permission of the instructor. Mr. Jacobs.

Building in the United States from colonial times, with emphasis on the nineteenth and twentieth centuries.

439. MODERN EUROPEAN ARCHITECTURE (HISTORY OF ART 367)

Fall term. Credit four hours. Prerequisite: permission of the instructor. Mr. Brown.

Nineteenth- and twentieth-century architecture of Europe.

440-451. HISTORICAL SEMINARS IN ARCHITECTURE

Throughout the year. Credit two hours a term. Prerequisite: permission of the instructor. Staff.

Qualified students will prepare papers based on historical evidence, discussing problems relating to design or architecture.

445. SPECIAL INVESTIGATIONS IN THE HISTORY OF
ARCHITECTURE

Either term. Credit as assigned. Prerequisite: permission of the instructor. Staff.

460. INTRODUCTION TO ARCHITECTURAL ASPECTS OF
ARCHAEOLOGICAL FIELD WORK

Fall term. Credit two hours. Messrs. Detweiler and Jacobs.

For architects, archaeologists, and laymen. An investigation of architectural techniques used in archaeology.

465. DESIGN AND CONSERVATION (PLANNING 644)

Fall term. Credit two hours. Messrs. Jacobs and Jones.

The rationale for and methods of utilizing existing cultural and aesthetic resources in the planning and design of regions and cities.

472. SEMINAR IN THE HISTORY OF EARLY MEDIEVAL
ARCHITECTURE

Either term. Credit two hours. Prerequisite: permission of the instructor. Mr. Detweiler.

473. SEMINAR IN THE HISTORY OF LATER MEDIEVAL ART AND ARCHITECTURE (HISTORY OF ART 531)

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Calkins.

478. SEMINAR IN THE HISTORY OF AMERICAN ARCHITECTURE

Fall term. Credit four hours. Prerequisite: permission of the instructor. Mr. Jacobs.

Investigation, by means of readings, lectures, and reports, of historical problems in architecture of the nineteenth and twentieth centuries in the United States.

479. SEMINAR IN THE HISTORY OF MODERN ARCHITECTURE (HISTORY OF ART 565)

Spring term. Credit four hours. Prerequisite: permission of the instructor. Mr. Brown.

Investigation, by means of readings, lectures, and reports, of historical problems in architecture of the nineteenth and twentieth centuries in Europe.

488-489. PROBLEMS IN MODERN ARCHITECTURE

Throughout the year. Credit two hours a term. Prerequisite: consent of the instructor. Mr. Rowe.

490. THESIS IN ARCHITECTURAL HISTORY

Either term. Credit as assigned.

Independent study by candidates for the Master's degree.

499. DISSERTATION IN ARCHITECTURAL HISTORY

Either term. Credit as assigned.

Independent research by candidates for the Ph.D. degree.

PLANNING 700. HISTORY OF PLANNING I

Fall term. Credit three or four hours. (Four hours credit required for graduate students in city planning.) Mr. Hugo-Brunt.

The history of the planning of communities from ancient times to the present.

PLANNING 702. SEMINAR IN THE HISTORY OF AMERICAN CITY PLANNING

Spring term. Credit two hours. Prerequisite: 700 or permission of the instructor. Mr. Reps.

PLANNING 705. INTRODUCTION TO THE HISTORY OF LANDSCAPE ARCHITECTURE AND DESIGN

Spring term. Credit three hours. Mr. Hugo-Brunt.

Classical landscape in the Mediterranean and the Middle East; the Islamic Byzantine tradition; medieval cityscape and the agrarian system; the Renaissance; landscape of gardens in Persia, India, China, Thailand, and Japan; the Victorians; landscape in North America; Colonial landscape; the twentieth century; horticulture and techniques; landscape in contemporary planning and architecture.

PLANNING 707. THE HISTORY OF COLONIAL CITY PLANNING

Spring term. Credit three hours. Mr. Hugo-Brunt.

Colonial city and regional planning in Southeast Asia, Africa, South America, and Canada.

PLANNING 709. INFORMAL STUDY IN THE HISTORY OF CITY PLANNING

Either term. Credit as assigned. Mr. Hugo-Brunt or Mr. Reps.

ART

Faculty: John E. Bosson, Jr., Victor E. Colby, Norman D. Daly, Kenneth W. Evett, James O. Mahoney, Gillian Pederson-Krag, Stephen Poleskie, Jason Seley, Arnold Singer, Jack L. Squier.

Visiting Critics: Friedel Dzubas, Nicholas Krushenick, Jeffrey E. Poklen.

Field Representative: Jason Seley, 109 Franklin Hall.

MAJOR AND MINOR SUBJECTS

Graphic Arts

Sculpture

Painting

The degree offered in this Field is the Master of Fine Arts. The Field does not offer the degrees of Master of Arts and Doctor of Philosophy.

Graduate courses in the practice of painting, sculpture, graphic arts, and art education are offered in the Department of Art in the College of Architecture, Art, and Planning. (See also the *Announcement of the College of Architecture, Art, and Planning*.)

As major subjects, painting, sculpture, and graphic arts lead to the Master of Fine Arts degree. As minor subjects they may be elected by Master of Arts candidates in other Fields, with the consent of the chairmen of their Special Committees and by arrangement with the Department of Art.

ADMISSION. Students who hold Bachelors' degrees and have clearly demonstrated professional promise in art may be admitted as candidates for the M.F.A. degree in any one of three programs described below: painting, sculpture, or graphic arts.

THE M.F.A. PROGRAM. The course of study requires four terms of residence and is intended for those who wish to complete their education as artists. Candidates must complete fifteen credit hours of courses in the history of art, taken either as graduate or undergraduate students. Students in the Field are eligible for courses in any area of study offered at the University; courses in writing, cinema, stagecraft, and music are available, as well as those in the usual academic subjects of the history of art, philosophy, anthropology, and the like. Students are required to take at least twelve hours of academic work outside the Department of Art during their four terms in residence.

The faculty is composed of practicing artists who teach rather than teachers who practice art. The entire resident faculty and the visiting critics are available to give criticism to graduate students.

The buildings in which the programs are housed are open twenty-four hours a day; they are adjacent to the Fine Arts Library (55,000 volumes) and not far from the University's Andrew Dickson White Museum of Art.

PAINTING. The program in painting is intended for those who are competent to do independent work of high quality. At the end of his third term

the candidate is required to present a one-man exhibition of work done while in residence. The principal effort of the fourth term is a thesis painting which is designed to demonstrate creative ability and technical proficiency. Graduate painting is under the direction of Professors Dzubas, Krushenick, and Seley. Students work in separate studios in Franklin Hall, a five-story building occupied by the Department of Art.

SCULPTURE. The graduate student in sculpture will design his own work program leading to a one-man show at the end of the third semester. Graduate sculpture is under the direction of Professors Colby, Seley, and Squier. The sculpture program has its own building, a 45- by 180-foot converted foundry with 14-foot ceilings. Complete gas and arc welding facilities; heavy-duty grinders, drill press, and band saw; and a variety of portable power tools are provided for the graduate students, as well as separate studios.

GRAPHIC ARTS. Graduate students in this program study the various graphic techniques, including relief, intaglio, lithography, and various photographic processes. Experiment and tradition, theory, history, and practice are part of the program, including the relation between image and typography, idea and communication. Graduate graphic arts is under the direction of Professors Singer and Poleskie. A full range of graphic arts facilities is available in the program's quarters in Franklin Hall, including etching presses, lithographic presses, proof presses, and a type shop.

Courses

390. GRADUATE PAINTING

Either term. Credit as assigned. May be repeated for credit.

The core studio course for the first three terms of graduate study in painting.

392. GRADUATE PRINTMAKING

Either term. Credit as assigned. May be repeated for credit.

The core studio course for the first three terms of graduate study in the graphic arts.

393. GRADUATE SCULPTURE

Either term. Credit as assigned. May be repeated for credit.

The core studio course for the first three terms of graduate study in sculpture.

396. GRADUATE THESIS

Either term. Credit as assigned.

For graduate students in their last term in the programs in painting, sculpture, and graphics.

398. SEMINAR IN ART CRITICISM

Either term. Credit two hours a term first year. Three terms required of M.F.A. candidates. Third term, when term theme is written, carries four hours credit. May be repeated for credit. Prerequisite: permission of the instructor.

A study of critical opinions, historical and modern, and their relation to problems in the theory of art.

CHINESE LITERATURE

Faculty: Nicholas C. Bodman, Chuen-tang Chow, John McCoy, Harold Shadick, Etsuko Terasaki.

Field Representative: Chuen-tang Chow, 103 Franklin Hall.

MAJOR SUBJECT

Chinese Literature

MINOR SUBJECTS

Chinese Literature

East Asian Linguistics

ADMISSION REQUIREMENTS. At least two years of Chinese language study are required prior to admission. Preference is given to applicants who have taken several undergraduate courses in English or European literature. Candidates for the Ph.D. degree whose undergraduate education was in a Chinese university are normally expected to have taken a degree in English or in a European literature before admission.

It is recommended that applicants submit Graduate Record Examination Aptitude Test scores.

LANGUAGE REQUIREMENTS. A reading knowledge of Japanese is essential for students of Chinese literature. Candidates for the M.A. degree are required to pass an examination in Japanese. Candidates for the Ph.D. degree are required to pass an additional examination in Japanese at a higher level. A reading knowledge of at least one European language is highly desirable.

FIELD REQUIREMENTS. A qualifying examination is given during the second semester of the first year to assess the student's capacity and help him in planning a program of study. The Admission to Ph.D. Candidacy Examination tests general knowledge of the whole development of Chinese literature and more specialized knowledge of selected genres, periods, and major authors.

The candidate for the M.A. degree is expected to take five semester courses (not including Chinese 312) and write a thesis. An examination on the thesis is required for both the M.A. and the Ph.D. degrees.

Recommended as minor subjects are: East Asian linguistics, medieval Chinese history, Oriental art, and a subject in English or European literature.

FELLOWSHIPS. In addition to fellowships awarded by the Graduate School, the candidate for the Ph.D. degree in Chinese literature is eligible for many of the fellowships listed under the China Program, some of which provide for a year of study in East Asia.

Courses

312. INTERMEDIATE CLASSICAL CHINESE

Spring term. Credit three hours. Prerequisite: 213 or 301. Mr. Shadick.

Study of texts in a variety of styles, ancient and modern.

313. CHINESE HISTORICAL AND PHILOSOPHICAL TEXTS

Fall term. Credit four hours. Prerequisite: 302 or 312 or consent of the instructor. Mr. Chow.

Selections from the standard histories, the classical philosophers, and early modern reformers.

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402. HISTORY OF THE CHINESE LANGUAGE

Either term. Credit four hours. Prerequisite: consent of the instructor. Mr. Bodman.

403. LINGUISTIC STRUCTURE OF CHINESE

Either term. Credit four hours. Prerequisite: consent of the instructor. Mr. Bodman.

411-412. ADVANCED READINGS IN MODERN CHINESE

Throughout the year. Credit four hours a term. Prerequisite: 302. Mr. McCoy.

414. CLASSICAL CHINESE PROSE

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Shadick.

416. CLASSICAL CHINESE POETRY

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Chow.

417. CHINESE POETIC DRAMA

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Shadick.

420. READINGS IN THE TRADITIONAL CHINESE NOVEL

Either spring or fall term, according to demand. Credit two or four hours. Prerequisite: consent of the instructor. Mr. McCoy.

501. INTRODUCTION TO LITERARY RESEARCH

Fall term. Credit four hours. Offered every other year. Mr. Chow.

521-522. ADVANCED READINGS IN CLASSICAL CHINESE

Throughout the year. Credit two or four hours a term. May be taken on an individual tutorial basis and may be repeated for credit. Prerequisite: consent of the instructor. Mr. Chow.

571. SEMINAR IN CHINESE LITERATURE

Either term. Credit three hours. May be repeated for credit. Staff.

JAPANESE 405-406. ADVANCED READINGS IN JAPANESE

Throughout the year. Credit four hours a term. Prerequisite: Japanese 302 or consent of the instructor. Mrs. Terasaki.

Topics will be selected on the basis of student needs.

LINGUISTICS 581-582. SINO-TIBETAN LINGUISTICS

Throughout the year. Credit four hours a term. Prerequisite: Linguistics 201-202 or Chinese 402-403 and consent of the instructor. Mr. Bodman.

Descriptive and comparative studies of Chinese dialects and Tibeto-Burman languages.

THE CLASSICS

Faculty: Gordon H. Fairbanks, James Hutton, Gordon M. Kirkwood, Gordon M. Messing, Elizabeth Milburn, Pietro Pucci, Noel D. Robertson, Edward W. Spofford, Leslie L. Threatte, Frederick O. Waage.

Field Representative: Pietro Pucci, 125 Goldwin Smith Hall.

MAJOR SUBJECTS

Ancient Philosophy
Classical Archaeology
Greek Language and Literature
Latin Language and Literature
Medieval and Renaissance Latin
Literature

MINOR SUBJECTS

Ancient History
Classical Rhetoric in the Original or
Translation
Classics (when the major is in
another Field)
Indo-European Linguistics

ADMISSION. Applications for admission to graduate study in the Field of Classics must include scores from the Graduate Record Examination.

M.A. DEGREE REQUIREMENTS. At the beginning of the first semester, the candidate for the M.A. degree chooses a major and a minor subject and applies to two members of the faculty to represent these subjects. These persons constitute the candidate's Graduate Committee, the one representing the major subject being his principal adviser or chairman. In early consultation with his Committee, the student should ascertain whether his knowledge of the subject (primarily his knowledge of the principal Greek and Latin authors) will, in regular course, qualify him to take the final oral examination, or whether he should undertake further supplementary work.

In order to qualify for the M.A. degree, the candidate with adequate undergraduate training is ordinarily expected to spend two semesters at Cornell, attending the seminars for which he is prepared; also to present a Special Essay (approximately thirty pages), which may be an enlarged seminar paper; to pass a written test in translation from Greek and Latin authors at the end of the first semester; and to pass a general oral examination at the end of the second semester. Within these two semesters, and as early as possible, he must also demonstrate proficiency in French or German in the manner prescribed by the Language Board.

The final oral examination is based partly on the classical authors and partly on the Special Essay, and is conducted by the candidate's Committee. This examination may also serve as the Qualifying Examination for the Ph.D. degree, in which case it will be attended by a third faculty member, who will subsequently serve on the candidate's Graduate Committee for the Ph.D. degree.

PH.D. DEGREE REQUIREMENTS. The candidate for the Ph.D. degree chooses a Special Committee formed of three professors in the Field. This Committee will advise him both in the choice of his courses and in his work for the dissertation. A good deal of latitude is granted the Committee in helping the candidate to formulate a program best fitted to his own needs.

It is expected that the candidate will devote a very substantial part of his first four semesters to completing official reading lists of Greek and Latin authors. Some seminars, other course work, and teaching will normally be undertaken simultaneously, but the main emphasis will be on the reading lists. The candidate will take the Admission to Candidacy Examination between the fifth and sixth semesters, at which time he will be responsible for an extensive knowledge of the authors included on the reading lists. During the fifth and sixth semesters, if not earlier, the candidate will be enrolled in those seminars which he has chosen in consultation with his Committee. At the end of the sixth semester, or earlier if possible, the candidate will choose a subject for his doctoral dissertation, work on which will occupy the next two semesters. Summer work may be included if he likes. Minor subjects may

be chosen from Fields other than Classics. The candidate is also expected to demonstrate proficiency in a second modern language.

Course work for graduate students in classics is conducted mainly in small seminars, the object of which is training in the methods, the principles, and the performance of independent research and criticism. As far as possible, therefore, the work is put into the hands of the students themselves.

Every candidate will be expected to teach for two semesters, usually in the second year or later. The semesters are not necessarily consecutive.

Since candidates may apply for support during the four summers, a candidate will be able to plan with his Special Committee for work during the summer.

ANCIENT PHILOSOPHY. The Department of Classics, in cooperation with the Department of Philosophy, offers a program leading to the Ph.D. in the Field of Classics with ancient philosophy as the major subject. The Department of Philosophy offers a corresponding program to graduate students in philosophy. The aim of the program is to meet the demand for experts in ancient philosophy who have been trained in both philosophy and the classics. Students entering the program in Classics will be asked to present evidence of promise in philosophy. Their course of study will include, along with other work in Classics, two courses in Plato (one in the Department of Classics, one in the Department of Philosophy), two courses in Aristotle (similarly divided), and at least two further courses in the Department of Philosophy. The Special Committee will include at least one member of the Department of Philosophy.

CLASSICAL ARCHAEOLOGY. Graduate students who choose archaeology as a major subject are advised to select Greek and Latin as minor subjects. Archaeology may also be chosen as a minor subject, complementing studies in the Classics. Previous training in archaeology, at either the undergraduate or graduate level, is not prerequisite.

Formal courses within the Department of Classics include introduction to classical archaeology, preclassical Greece, and the archaeology of classical Greece. Students may supplement these by courses in archaeology offered by other departments and by independent study undertaken in consultation with members of the Department of Classics. It is expected that graduate students interested in archaeology will from time to time have the opportunity to participate in excavations during the summer.

FINANCIAL AID. Several departmental awards are available to incoming students in the Field of Classics:

The Florence May Smith Fellowships, with a stipend of \$2,000 plus tuition and general fees, are granted especially to students in the Field of Classics.

Two Classical Scholarships carrying tuition and General Fee are available. Several NDEA Fellowships are granted incoming students.

The income of the Charles Edwin Bennett Fund for Research in the Classical Languages is used each year in the way best suited to promote the object for which the fund was established.

Special Interests of the Faculty

Gordon Fairbanks, Professor of Linguistics: Sanskrit and Indo-European comparative studies.

James Hutton, Kappa Alpha Professor of Classics: Greek anthology, Greek and Latin epic, Renaissance humanism.

Gordon M. Kirkwood, Professor of Classics: Greek and Roman theatre, Greek lyric poetry.

Gordon M. Messing, Associate Professor of Classics: classical and Indo-European linguistics.

Elizabeth Milburn, Assistant Professor of Classics: classical archaeology with special fields of Mycenaean archaeology and Greek ceramics.

Pietro Pucci, Associate Professor of Classics: text history, Greek drama.

Noel Robertson, Assistant Professor of Classics: Greek and Latin religion, Greek epic.

Edward W. Spofford, Assistant Professor of Classics: Latin literature, elegy, epic poets.

Leslie L. Threatte, Assistant Professor of Classics: Greek literature, historical writers, and epigraphy.

Frederick Waage, Professor of History of Art: numismatics and ceramics.

In related Fields the graduate students in the Field of Classics may follow the courses of the following, among others.

Allan Bloom, Associate Professor of Government: political theory.

Alfred L. Ivry, Assistant Professor of Arabic and Hebrew Studies.

James J. John, Professor of Palaeography and Mediaeval History: Latin palaeography.

Isaac Rabinowitz, Professor of Biblical and Hebrew Studies.

Richard Sorabji, Associate Professor of Philosophy: ancient philosophy.

CORNELL STUDIES IN CLASSICAL PHILOLOGY. In 1887 the following paragraph appeared as the Introduction to this series: "It is proposed to publish, in connection with the Classical work of Cornell University, such papers, by instructors or students, as may be thought to have an interest for workers in Classical philology elsewhere. These papers will appear at indeterminate intervals."

Since 1887, thirty-five volumes have appeared; at present all out-of-print volumes are being reprinted. The series has always taken a broad view of classical philology and has included grammatical, historical, and archaeological studies, as well as studies in classical literature and thought.

Today the series continues to publish scholarly works by members of the Department; doctoral dissertations of an appropriate nature are eligible for inclusion.

Courses

GREEK

301. HERODOTUS AND SOPHOCLES

Fall term. Credit four hours. Prerequisite: Greek 203.

302. THUCYDIDES AND THE GREEK ORATORS

Spring term. Credit four hours. Prerequisite: Greek 203.

305. AESCHYLUS, ARISTOPHANES, LYRIC POETS

Fall term. Credit four hours. Prerequisite: Greek 203.

306. PHILOSOPHICAL WRITERS

Spring term. Credit four hours. Prerequisite: Greek 203. Mr. Robertson.

407. GRADUATE READING COURSE

Fall term. Credit four hours. Primarily for graduate students. Mr. Pucci.

A reading course in a major author or genre. Subject to be determined.

408. GREEK EPIC: HOMER AND HESIOD

Spring term. Credit four hours. Primarily for graduate students.

442. GREEK PHILOSOPHY

Spring term. Credit four hours. Prerequisite: two terms of Greek at the 300 level.

Topics for 1969: A study of some important types of argument used by Greek philosophers. Texts to be read and discussed will include: Parmenides; Zeno; Plato, *Charmides* and *Phaedo*; Aristotle, *Physics*, Book I.

501-502. INDEPENDENT STUDY FOR GRADUATE STUDENTS

LATIN

315. LUCRETIUS' *DE RERUM NATURA* AND CICERO'S PHILOSOPHICAL WORKS

Fall term. Credit four hours. Prerequisite: Latin 206.

316. VIRGIL'S *AENEID*

Spring term. Credit four hours. Prerequisite: 315 or equivalent. Mr. Robertson.

317. TACITUS AND SENECA

Fall term. Credit four hours. Prerequisite: 206.

318. ELEGIAC POETS, PETRONIUS, APULEIUS

Spring term. Credit four hours. Prerequisite: 317 or equivalent.

367-368. MEDIEVAL LATIN LITERATURE

Throughout the year. Credit four hours a term. Prerequisite: three years of high school Latin or consent of the instructor. Mr. Wetherbee.

415. SILVER AGE LITERATURE

Fall term. Credit four hours. Prerequisite: two terms of Latin at the 300 level. Mr. Pucci.

Selections from Juvenal, Martial, Pliny the Younger, Quintilian and Seneca.

416. THE WORKS OF HORACE

Spring term. Credit four hours. Prerequisite: two terms of Latin at the 300 level. Mr. Spofford.

551-552. INDEPENDENT STUDY FOR GRADUATE STUDENTS

GREEK AND LATIN COMPOSITION

409-410. ADVANCED GREEK COMPOSITION

Throughout the year. Credit one hour a term. Prerequisite: Greek 209-210 or the equivalent. Mr. Messing.

431-432. LATIN COMPOSITION: ADVANCED COURSE

Throughout the year. Credit one hour a term. For undergraduates who have completed Latin 221-222 and for graduate students. Fall term, Mr. Hutton. Spring term, Mr. Messing.

CLASSICAL LINGUISTICS

421-422. HISTORICAL GRAMMAR OF GREEK AND LATIN

Throughout the year. Credit four hours a term. Mr. Messing.

423. VULGAR LATIN

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Messing.

An introduction via selected Late Latin texts to the popular Latin from which the Romance languages are derived.

424. ITALIC DIALECTS

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Messing.

Selected texts in Oscan and Umbrian will be studied both for their own interest and for their bearing on historical Latin and Indo-European linguistics.

ARCHAEOLOGY

220. INTRODUCTION TO CLASSICAL ARCHAEOLOGY

319. PRECLASSICAL GREECE

Fall term. Credit four hours. Miss Milburn.

Aegean archaeology from the Neolithic period to the eighth century B.C.

320. ARCHAEOLOGY OF CLASSICAL GREECE

Spring term. Credit four hours. Miss Milburn.

Study of select monuments of ancient Greece from the eighth century to the Hellenistic period.

313. PREHISTORIC ART

Fall term. Credit four hours. Mr. Waage.

The evolution and diffusion of Stone Age art and artifacts in Eurasia and Africa will be presented so as to acquaint the student at the same time with the major aspects and problems of archaeological activity in general. The time span extends from the Lower Palaeolithic period to the Metals Age civilizations of the Near East.

314. PRIMITIVE ART: THE ART OF TRIBAL SOCIETIES

Spring term. Credit four hours. Mr. Waage.

The shaping and use of art forms to satisfy group needs in cultures where art was an indispensable element of every day life. The lectures will cover the tribal arts of Africa; subjects for the term paper will involve also the primitive arts of Australia, the Pacific Islands, and North America.

321. GREEK SCULPTURE

Spring term. Credit four hours. Mr. Waage.

322. ARTS OF THE ROMAN EMPIRE

Spring term. Credit four hours. Mr. Waage.

The visual arts in the service of the first world state. The course starts with the Etruscan and Republican periods and ends with the conflict of styles in the Early Christian Period.

ARCHITECTURE 431. THE CLASSICAL WORLD

Spring term. Credit three hours. Mr. Detweiler.

HISTORY

431. THE ROMAN REPUBLIC, 133-30 B.C.

Fall term. Credit four hours. Prerequisite: History 302 or consent of the instructor.

432. GREEK HISTORY, 500-336 B.C.

Spring term. Credit four hours. Prerequisite: History 301 or consent of the instructor.

Seminars

571. AESCHYLUS, *PROMETHEUS BOUND*

Fall term. Credit four hours. Mr. Hutton.

572. SAPPHO AND ALCAEUS

Spring term. Credit four hours. Mr. Kirkwood.

581. HORACE

Fall term. Credit four hours. Mr. Pucci.

582. LUCRETIUS

Spring term. Credit four hours. Mr. Hutton.

576. PLATO'S *THEAETETUS*

Fall term. Credit four hours.

521. NUMISMATICS

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Waage.

Students will work with Greek and Roman coins from the University's collection to acquire a knowledge of their archaeological, artistic, and historical importance.

523. CERAMICS AND THE TECHNIQUES OF EXCAVATION

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Waage.

631-632. SEMINAR IN ANCIENT HISTORY

One or two terms. Credit four hours a term.

HISTORY 635-636. SEMINAR IN MEDIEVAL HISTORY

One or two terms. Credit four hours a term. Mr. John.

COMPARATIVE LITERATURE

Faculty: M. H. Abrams (English), Eric A. Blackall (German), Marvin Carlson (Theatre Arts), Joseph B. Dallett (German Literature), Herbert Dieckmann (French and Comparative Literature), Ephim G. Fogel (English), Hans-Jost Frey (German and French), Alexander Gelley (Comparative Literature), George Gibian (Russian), David I. Grossvogel (French), William W. Holdheim (French and Comparative Literature), Robert E. Kaske (English), Gordon M. Kirkwood (Classics), Charles S. Levy (English), Edward P. Morris (French), David Patterson (Semitic Studies), Isaac Rabinowitz (Hebrew), Edgar Rosenberg (English), Harold Shadick (Chinese).

Field Representative: Alexander Gelley, 156 Rockefeller Hall.

MAJOR AND MINOR SUBJECT

Comparative Literature

The graduate program in the Field of Comparative Literature is undergoing revision at the present time. The following description presents the general base on which the individual student plans his course of study.

The graduate program in Comparative Literature is limited to about twenty students. The applicant must be mature enough to study in various departments and plan a field of study that combines his interests. At the time of application he should be prepared to study three literatures (one of which may be English or American) in the original language. The Field requires scores of the Graduate Record Examination (both Aptitude and Advanced Tests), though in special circumstances this requirement may be waived. The examination must be taken no later than December.

No Master of Arts degree is offered in Comparative Literature at the present time. Candidates are admitted directly to the Ph.D. program, but may if they wish take a Master's degree in the literature which constitutes their major field. The two minor subjects must be in literatures other than the one chosen as the major; English and American literatures cannot be counted as separate literatures for this purpose. In the major the students will be responsible for topics drawn from the whole history of literature in that field. In the two minors coverage is limited to a group of topics within a restricted historical period. Here students may concentrate on areas of special interest such as a genre (drama, novel, or poetry) or literary criticism and theory. Under normal circumstances students can complete course and examination requirements in three years of study and the Ph.D. degree in four years.

The graduate program in the Field of Comparative Literature allows specialization in almost every principal area from medieval to modern studies and literary criticism and theory. Under a unique arrangement students can spend a period of time in Europe and receive full graduate credit. Cornell fellowships can be applied to this study abroad.

All candidates in the Field will normally take a qualifying examination during their first semester, the purpose of which is to judge the students' knowledge and aptitudes and to allow their committees to make recommendations on the courses of study to be pursued. The Admission to Candidacy Examination will generally be taken at the end of the second year or during the third year. A Final Thesis Examination is required, in accordance with the regulations of the Graduate School.

One year of teaching is required of all candidates.

Courses

400. GREEK AND ROMAN DRAMA

Spring term. Credit four hours. Mr. Kirkwood.

A study, by lecture and discussion, of the evolution of forms and meanings in ancient tragedy and comedy as exemplified by the works of Aeschylus, Sophocles, Euripides, Aristophanes, Menander, Plautus, Terence, and Seneca. Representative plays are read in translation. Consideration is given also to the origins of tragedy and comedy and to the ancient theater.

401. ANCIENT AND RENAISSANCE LITERARY CRITICISM

Fall term. Credit four hours. Mr. Williams.

A study of ancient and Renaissance poetic and rhetorical theory, with special reference to Plato, Aristotle, Horace, Quintilian, and Longinus, and to Scaliger and Castelvetro as Renaissance interpreters of the classical formulations.

402. ALLEGORY AND SYMBOLISM

Spring term. Credit four hours. Mrs. Kaske.

Definitions and models drawn from the *Divine Comedy* will be related to a reading of works ranging from classical to modern, such as Prudentius' *Psychomachia*, the *Romance of the Rose*, mystical lyrics of St. John of the Cross and others, the *Faerie Queene*, *Faust Part II*, and selected works of Kafka.

409. POST-SYMBOLIST POETRY

Spring term. Credit four hours.

413. MODERN ITALIAN LITERATURE

Fall term. Credit four hours. Mr. Biasin.

A thematic study of such authors as Verga, Svevo, Pirandello, Tomasi di Lampedusa, Basani, Pavese, and Moravia. Readings, lectures, and discussion in English.

416. MYTH AND LITERATURE

Spring term. Credit four hours. Mrs. Siegel.

Readings in mythography, literature, and criticism in the twentieth century. Emphasis will be on Yeats and Stevens.

442. MODERN DRAMATISTS

Spring term. Credit four hours. Mr. Carlson.

Topics to be announced. All readings in English translation.

460. UTOPIAS AND IMAGINARY VOYAGES IN THE BAROQUE AGE AND THE ENLIGHTENMENT

Spring term. Credit four hours. Mr. Dallett.

Visions of the self, society, and the world as projected in the fictional modes of the dream, the Utopia, the allegory, and the novel of travel and shipwreck. Authors given special attention are Francis Godwin (*The Man in the Moone*), Johann Valentin Andreae (*Christianopolis*), Kepler (*The Dream*), Quevedo (*Visions*), Cyrano de Bergerac, Athanasius Kircher, Grimmelshausen

(*Simplicissimus*, I-VI), Bunyan, Defoe, J. G. Schnabel (*Die Insel Felsenburg*), Swift, and Samuel Johnson (*Rasselas*). Lectures and discussion.

466. THE NOVEL IN THE ROMANTIC PERIOD

Spring term. Credit four hours. Mr. Gelley.

A study of various traditions of the novel in the period (epistolary, Gothic, etc.) and analysis of works by Goethe, Jean Paul, Novalis, Hoffman, Nerval, Constant, Hugo, Scott.

469. TOPICS IN EUROPEAN FICTION

Fall term. Credit four hours. Mr. Hertz. Reading knowledge of French required.

Topic to be announced.

501-502. TOPICS IN MODERN LITERATURE

Throughout the year. Credit four hours a term. Primarily for graduate students in comparative literature.

Fall term: Mr. Gelley. Trends in twentieth-century criticism. Topics will include theoretical problems related to criticism (such as periodization and biographical evidence), specific movements or orientations (*Geistesgeschichte*, Phenomenology, Stylistics), and questions of genre (some recent definitions of the novel). Spring term: Mr. Holdheim. Examination in depth of several modern theories of the novel.

520. EIGHTEENTH-CENTURY AESTHETICS

Spring term. Credit four hours. Mr. Dieckmann.

SOCIETY FOR THE HUMANITIES 505. TEXTUAL CRITICISM AND LITERARY INTERPRETATION

Fall term. Credit four hours. Open, by invitation, to seniors and graduate students. Mr. Dieckmann.

ENGLISH LANGUAGE AND LITERATURE

Faculty: M. H. Abrams, Barry B. Adams, Archie R. Ammons, Judith H. Anderson, Douglas N. Archibald, Jonathan P. Bishop, Jean F. Blackall, John D. Boyd, Morris R. Brownell, Sanford Budick, Anthony Caputi, Michael J. Colacurcio, J. Milton Cowan, Vincent A. DeLuca, Donald D. Eddy, Robert H. Elias, Scott B. Elledge, Robert T. Farrell, Daniel H. Finlay, Ephim G. Fogel, Paul A. Gottschalk, Baxter L. Hathaway, George H. Healey, Judith S. Herz, Thomas D. Hill, Charles F. Hockett, Robert D. Hume, Robert E. Kaske, Michael W. Kaufman, Howard Kaye, Charles S. Levy, Phillip L. Marcus, James H. Matlack, William P. Matthews III, Dan E. McCall, James R. McConkey, Francis D. McConnell, H. Scott McMillin, Dorothy M. Mermin, Francis E. Mineka, Arthur M. Mizener, David Novarr, A. Reeve Parker, Stephen M. Parrish, Edgar Rosenberg, Joanna Russ, Daniel R. Schwarz, Sandra Siegel, Walter J. Slatoff, Bert O. States, S. Cushing Strout, Winthrop Wetherbee III.

Field Representative: Charles S. Levy, 235 Goldwin Smith Hall.

MAJOR AND MINOR SUBJECTS

American Literature	The English Renaissance to 1660
American Studies	The Nineteenth Century
Creative Writing ⁵	Old and Middle English
Dramatic Literature	Prose Fiction
English and American Literature	The Restoration and Eighteenth Century
English Linguistics ⁶	The Twentieth Century
English Poetry	

ADMISSION REQUIREMENTS. An applicant for graduate study in English is required to hold an acceptable undergraduate degree and to submit a dossier of materials testifying to his record. In addition to the materials required of an applicant by the Graduate School (see p. 6 of this *Announcement*), the Department of English requires scores of the Graduate Record Examination (Aptitude and Advanced tests), though in special circumstances this requirement may be waived. Applicants should plan to take this examination by mid-December so that their scores will be available for consideration in early February.

Applicants may apply for admission to either the Master of Arts program, the Master of Fine Arts program in creative writing, or the doctoral program, depending on their needs and intentions. In addition to their other credentials, applicants for admission to the M.F.A. program are required to submit samples of their writing, and are asked to send them directly to the Committee on the Creative Writing Program, Department of English.

FOREIGN LANGUAGE PROFICIENCY. The knowledge of foreign languages is relevant to any program of graduate study in English if the student is not to be confined by parochial limitations upon both the literary texts and the scholarship and criticism accessible to him. The number and choice of these languages will depend on each student's program of specialization and on the direction of his interests within that program. Some programs of doctoral study will require extensive knowledge of a single foreign language and literature; other doctoral programs will require competent reading ability in two or more foreign languages. Programs of study for the M.A. and for the M.F.A. will normally require reading ability in one foreign language. In order to make foreign language and literature a functional part of his graduate program, the student should reach agreement with his Special Committee on this matter as early as possible and plan with the Committee the course of formal or informal study that may be requisite, as well as the means by which he will demonstrate his competence in the appropriate languages—by his undergraduate record, by additional courses in foreign languages and literatures, or by translating and discussing documents related to his work in English and American literature.

RESIDENCE AND THESIS REQUIREMENTS. Each of the graduate degrees in English requires that the student spend a specified amount of time in residence. The Master of Arts requires two terms of residence; the Master of Fine Arts in creative writing, four; and the Doctor of Philosophy, six.

To receive his degree at the end of the specified period of residence, a student must present a thesis acceptable to his Special Committee in the form prescribed by the Graduate School, and he must be formally examined by his Committee. A doctoral candidate may be awarded the M.A. without presenting a thesis when he passes his Admission to Candidacy Examination.

5. Cannot be the major for the Ph.D.

6. Minor only.

THE PROGRAMS. Graduate study in English at Cornell is based on a committee system: each student works out an individual program of study with the cooperation and consent of a Special Committee of his own choosing. This procedure, which eliminates uniform course requirements and departmental examinations, is designed to provide a close working relationship between professors and students and to encourage freedom and flexibility in the choice of a route toward the graduate degree. Such a program places special demands on the energy and adaptability of both faculty and students, and requires of each student a high degree of initiative, reflection, and responsibility.

A candidate for the M.A. is expected to complete at least six one-term courses. The thesis of a candidate majoring in creative writing will consist of original fiction or poetry. All other M.A. candidates major in English and American literature. A candidate who plans to earn the M.A. with work done solely during summer sessions may do so in four summers, writing his thesis and taking a seventh course in the fourth summer.

A candidate for the M.F.A. is expected to complete four workshop courses, and eight additional courses of which five should be in literature, and to present an acceptable piece of creative writing (a novel, a book of poems, a book of short stories, a full-length play, etc.) in satisfaction of the thesis requirement.

A candidate for the Ph.D. is normally expected to complete six one-term courses in his first year of work, roughly half the course work of his doctoral program. Since areas of knowledge and competence to be emphasized will vary in accordance with the individual program of study, such areas can be described here only in broad outline. It is assumed that the student and his Committee will set up a program that will be comprehensive in the sense that it escapes from provincialism both in time and in modes of literary inquiry. And no matter what his particular interests and orientation, the student will profit from some familiarity—to be achieved either by courses or by informal study—in the following areas: (1) a knowledge of authors and works which have been most influential in determining the course of English and American literature; (2) the theory and criticism of literature; (3) the relations between literature and other areas or disciplines, such as history, philosophy, psychology, sociology, religion, the arts; (4) such basic scholarly concerns as textual criticism, analytic bibliography, and problems of attribution, authentication, genre, source and influence.

Two other areas are so basic as to be given special emphasis:

1. *Study of the English language*—Relevant to most programs of study in literature is a perspective in depth on the medium of that literature, the language. Various means are available to aid the student in acquiring such a perspective. The English Department offers courses in Old English, the history of the English language, and grammatical analysis, as well as in the application of linguistic study to the history of English literature, metrics, and literary criticism. Several other departments provide courses in subjects such as descriptive linguistics, psycholinguistics, and the philosophy of language.

2. *Foreign language proficiency*, which is treated in an earlier section.

Upon entering the doctoral program, a student majors in English and American literature and normally devotes himself to the more or less broad study of the literary tradition in English. At any time after the student's first full semester of residence, but in no case later than the end of his third semester, his Committee will decide whether he is qualified to proceed toward the Ph.D. This judgment is to be a cumulative one based on course work, work with committee members, student self-assessments, and interviews be-

tween the student and his Committee. The final decision will normally be made in conjunction with an interview or examination whose form will be arranged by the student and his Committee.

At this point, the student typically substitutes for English and American literature a major representing the subject in which he is primarily interested. He also minors in one or two subjects, either or both of which may, but need not, be chosen from among the offerings of related Fields. A student electing to major in American Studies within the Field of English will define his major to include a minor in history and will choose one minor from some non-American subject within his area of concentration. Doctoral students are examined in their major and minor subjects on the Admission to Candidacy Examination.

As part of his professional preparation, the Field requires that every doctoral candidate acquire some teaching experience. The details of this requirement will be worked out according to the needs of individual students.

Research and Study Opportunities

Graduate work at Cornell offers the opportunity for study in a distinguished academic community with extensive resources. The books and manuscripts held by the John M. Olin Research Library, completed in 1961, place it among the foremost university libraries in the United States; its special collections range from Dante and Petrarch collections unique in this country to a splendid and comprehensive Wordsworth collection and one of the great Joyce collections of the world. Among the staff normally available for the direction of graduate studies are the following (the listing of areas of interest and instructors is illustrative, not exhaustive—at the beginning of the year, the Department circulates a statement summarizing the various interests of its members).

Anglo-Saxon and Medieval Studies: Robert T. Farrell, Thomas D. Hill, Robert E. Kaske, Winthrop Wetherbee III.

The Renaissance: Barry B. Adams, Judith H. Anderson, Daniel H. Finlay, Ephim G. Fogel, Paul A. Gottschalk, Baxter L. Hathaway, Charles S. Levy, David Novarr.

The Restoration and the Eighteenth Century: Douglas N. Archibald, Morris R. Brownell, Sanford Budick, Donald D. Eddy, Scott B. Elledge, George H. Healey, Robert D. Hume.

The Romantic Period: M. H. Abrams, Vincent A. DeLuca, Francis D. McConnell, A. Reeve Parker, Stephen M. Parrish.

The Victorian Period: Jonathan P. Bishop, John D. Boyd, Francis E. Mineka, Dorothy M. Mermin.

The Twentieth Century: Howard Kaye, Phillip L. Marcus, Dan E. McCall, Arthur M. Mizener.

American Literature: Jean F. Blackall, Michael J. Colacurcio, Robert H. Elias, James H. Matlack, Walter J. Slatoff, S. Cushing Strout.

The Novel: James R. McConkey, Edgar Rosenberg, Daniel R. Schwarz.

The Drama: Anthony Caputi, Michael W. Kaufman, H. Scott McMillin, Bert O. States.

Creative Writing: Archie R. Ammons, Baxter L. Hathaway, William P. Matthews III, James R. McConkey, Joanna Russ.

In choosing minor members of his Committee, a student can of course draw upon the faculties of related Fields.

FINANCIAL AID. An applicant in English can apply for fellowship support by checking the proper box or boxes on the graduate application, but one wishing to apply for a teaching fellowship should write a brief letter to the Chairman of the Department by March 1. Only those applicants are eligible for teaching fellowships who upon taking up teaching duties will have completed at least a year of graduate work; the Chairman will consider the appointment of such an applicant once the Field has recommended him to the Graduate School for admission. At present, virtually all students are being supported through the model four-year program under some combination of teaching and fellowship support.

Inquiries about graduate work should be directed to the Field Representative; a procedural guide describing the program in full can be obtained upon request.

Courses

The following list of courses and seminars is assembled from the offerings of 1968-69 and 1969-70 and is intended to be illustrative. A selection of about thirty is offered each year.

500. INTRODUCTION TO ADVANCED RESEARCH

Spring term. Credit four hours. Mr. Novarr.

A study of methods and materials relevant to the solution of problems in scholarly and critical interpretation. For candidates for the Ph.D. degree.

501. READINGS IN OLD ENGLISH

Fall term. Credit four hours. Mr. Farrell.

Elements of Old English grammar and reading in the shorter literary texts.

502. BEOWULF

Spring term. Credit four hours. Prerequisite: 501. Mr. Farrell.

A reading of the poem in Old English and discussion of the literary problems which it presents.

503. MIDDLE ENGLISH

Fall term. Credit four hours. Mr. Kaske.

Reading and critical analysis of major works, excluding Chaucer and the drama.

504. CHAUCER

Spring term. Credit four hours. Mr. Kaske.

Reading and critical analysis, with emphasis on *Troilus* and *Canterbury Tales*.

508. THE ENGLISH LANGUAGE

Spring term. Credit four hours. Mr. Farrell.

A study of major problems in the history and development of language from the Old English period to the present time. Though the course will be based on a historical survey, students will be given freedom to work in areas of particular interest, whether ancient or modern. Some knowledge of Old English is very strongly advised.

510. GRAMMATICAL ANALYSIS

Spring term. Credit four hours. Mr. Hathaway.

78 ENGLISH LANGUAGE AND LITERATURE

Study of the structures of English revealed in the transformation of the basic components of predications.

512. MEDIEVAL DRAMA

Spring term. Credit four hours. Mr. Barry Adams.

Dramatic forms and traditions from the liturgical drama to the Elizabethan period.

513. ELIZABETHAN AND JACOBAN DRAMA

Fall term. Credit four hours. Mr. McMillin.

Studies in the dramatic works of Shakespeare's contemporaries and immediate predecessors.

515. CURRENTS OF THOUGHT IN THE EARLY RENAISSANCE

Spring term. Credit four hours. Miss Anderson.

The awareness of history and human possibility from the age of Erasmus, Colet, and More to that of Shakespeare. Close attention to a limited series of literary and historical works of the sixteenth century, for example, More's *Richard*, the Chronicles, Shakespeare's *Richard III*.

518. STUDIES IN ELIZABETHAN LITERATURE

Spring term. Credit four hours. Mr. Levy.

Particular emphasis upon the shorter forms of Elizabethan verse, with some consideration of Continental influences.

520. JOHNSON AND DRYDEN

Spring term. Credit four hours. Mr. Novarr.

Reading and critical analysis of selected plays, poems, and criticism.

522. MILTON

Spring term. Credit four hours. Mr. Levy.

Studies in Milton's English poetry, with some related consideration of the prose.

527. EIGHTEENTH-CENTURY LITERATURE

Fall term. Credit four hours. Mr. Brownell.

Readings in Pope and his contemporaries, with attention to relationships between literature and the fine arts.

530. THE NEW ENGLAND MIND, 1620-1860

Spring term. Credit four hours. Mr. Colacurcio.

The major texts of Puritanism studied in relation to the literary productions of Emerson, Hawthorne, and Melville. The emphasis will be on varieties of Puritan inheritance.

533. THE INTELLECTUAL ORIGINS AND DEVELOPMENT OF THE ROMANTIC MOVEMENT IN AMERICA

Fall term. Credit four hours. Mr. Strout.

The intellectual and social context and genesis of American romanticism, with particular emphasis on the theme of antirationalism.

535. THE INTELLECTUAL ORIGINS OF THE MODERN CONSCIOUSNESS IN AMERICAN LITERATURE AND THOUGHT

Fall term. Credit four hours. Mr. Strout.

537. STUDIES IN AMERICAN LITERATURE

Fall term. Credit four hours. Mr. Elias.

Naturalism in the United States: its social and cultural context; its European and American beginnings; its expression in the theory and practice of such writers as Hamlin Garland, Stephen Crane, Frank Norris, Theodore Dreiser, and Jack London; and its relation to the work of Henry Adams, Gertrude Stein, and Sherwood Anderson.

538. STUDIES IN AMERICAN LITERATURE

Spring term. Credit four hours. Mr. Elias.

American novelists between the wars: a study of the concern of such writers as Lewis, Dos Passos, Hemingway, and Cozzens with the relation of the individual to society.

549-550. CREATIVE WRITING

Throughout the year. Credit four hours a term. Fall term: Messrs. Hathaway, McConkey. Spring term: Mr. Ammons.

553. STUDIES IN ENGLISH POETRY

Spring term. Credit four hours. Mr. Abrams.

Imagery and organization in a variety of narrative, descriptive, and lyric poems, from Spenser to Wallace Stevens.

562. CHARACTER AND IDENTITY IN THE TRAGEDIES OF SHAKESPEARE

Spring term. Credit four hours. Mr. Fogel.

A study of how Shakespeare, in his evolution as a tragic artist, brings into ever sharper focus the problematic character of the hero and the question of his identity. The relation of such concerns to the design of the play and to Renaissance and modern philosophies of man. Special emphasis on Hamlet, Othello, Lear, Antony, and Coriolanus, with collateral study of tragic heroes in such dramatists as Chapman and Webster.

564. DRAMATIC LITERATURE: SHAW AND O'NEILL

Spring term. Credit four hours. Mr. Caputi.

A detailed study of the plays of Bernard Shaw and Eugene O'Neill and of their backgrounds.

567. DRAMATIC CRITICISM

Fall term. Credit four hours. Mr. Caputi.

A study of the principal modes and problems of dramatic criticism. The work will consist of studying plays as well as critics, and of testing and evaluating as well as describing established lines of critical inquiry.

571. ROMANTIC POETRY

Fall term. Credit four hours. Mr. Parker.

Discussion of the art, thought, and personality of Coleridge, with emphasis on both poetry and intellectual prose, and consideration of his significance in the Romantic Period.

572. THE ROMANTIC PERIOD

Spring term. Credit four hours. Mr. Abrams.

Structure and imagery in the longer Romantic poems.

573. ROMANTIC AND MODERN WRITERS

Fall term. Credit four hours. Mr. Parker.

Readings in such nineteenth- and twentieth-century writers as Wordsworth, Shelley, Keats, Eliot, Lawrence, and Stevens, with consideration of modern responses to problems raised by the Romantics.

575. VICTORIAN PROSE

Fall term. Credit four hours. Mr. Mineka.

Major emphasis upon writers of nonfictional prose, but with some attention to the novel.

576. VICTORIAN POETRY

Spring term. Credit four hours. Mr. Mineka.

Major emphasis upon Tennyson, Browning, and Arnold, but with some study of other Victorian poets.

582. STUDIES IN MODERN FICTION

Spring term. Credit four hours. Mr. Slatoff.

A study of "blackness" in selected fiction by both white and black authors such as Conrad, Faulkner, Wright, Ellison, and Baldwin.

583. BOSTON AND AMERICAN LITERATURE

Fall term. Credit four hours. Mr. Bishop.

A review of some of the principal works expressive of Boston culture from the mid-nineteenth century to the present, using Martin Green's *The Problem of Boston* as starting point. Research on historical, literary, or cultural topics of individual interest will be encouraged.

584. FORMS OF THE NOVEL

Spring term. Credit four hours. Mrs. Blackall.

Gothic Romance in eighteenth-, nineteenth-, and twentieth-century manifestations.

587. VOICE AND TONE

Fall term. Credit four hours. Mr. McConkey.

An examination of alterations in voice and tone in nineteenth- and twentieth-century fiction. Novels selected from the work of such writers as Eliot, Trollope, Forster, and Pynchon.

591. TWENTIETH-CENTURY LITERATURE: YEATS

Fall term. Credit four hours. Mr. Archibald.

Exploration of Yeats's dialogue with history and his encounters with earlier imaginations (Blake, Shelley, Swift, Burke). Emphasis on the poetry and on questions about literary influence.

594. STUDIES IN TWENTIETH-CENTURY AMERICAN LITERATURE

Spring term. Credit four hours. Mr. Mizener.

An examination of the work of two or three representative poets of the twentieth century (such as Frost or Stevens or Williams) and two or three representative writers of fiction (such as Faulkner or Fitzgerald or Hemingway).

598. MASTER'S ESSAY

Spring term. Members of the Department.

602. ADVANCED OLD ENGLISH

Spring term. Credit four hours. Mr. Hill.
Studies in Old English Christian poetry.

608. STUDIES IN MEDIEVAL LITERATURE

Spring term. Credit four hours. Mr. Kaske.
Advanced research in English (and other) medieval literature.

616. STUDIES IN THE SIXTEENTH CENTURY: SIR PHILIP SIDNEY

Spring term. Credit four hours. Mr. Fogel.
An examination of the literary achievement of Sidney, as poet and writer of fiction, with particular reference to the two versions of the *Arcadia* and the theories embodied in *The Defence of Poesie*.

617. STUDIES IN THE SEVENTEENTH CENTURY: JOHN DONNE

Fall term. Credit four hours. Mr. Novarr.
An intensive examination of the scholarly and critical work pertinent to an understanding of Donne and of the late Renaissance.

619. STUDIES IN ELIZABETHAN-JACOBEAN DRAMA

Fall term. Credit four hours. Mr. McMillin.
Close critical and theatrical analysis of three major works: Jonson, *The Alchemist*; Shakespeare, *The Winter's Tale*; Webster, *The Duchess of Malfi*. The plays will be read in the context of Jacobean drama from 1603 to 1613.

622. MILTON

Spring term. Credit four hours. Mr. Elledge.
Milton's English poems and selected prose.

643. AUGUSTAN LITERATURE: POPE

Fall term. Credit four hours. Mr. Brownell.
Studies in the poetry of Alexander Pope, with special consideration of Pope's interest in and debt to the fine arts.

671. WORDSWORTH

Fall term. Credit four hours. Mr. Parrish.
Critical and textual studies based upon the Dove Cottage manuscript archive.

675. ROMANTIC POETRY AND ROMANTIC CRITICISM

Fall term. Credit four hours. Mr. Abrams.
Coleridge's *Biographia Literaria*, in the context of the major works Coleridge discusses, especially the poetry and criticism of Wordsworth.

678. DICKENS

Spring term. Credit four hours. Mr. Rosenberg.
A study of the major novels. The seminar will stress Dickens' aesthetics and politics within the larger framework of Victorian thought. Some attention will be paid to Dickens' nonfictional works.

684. STUDIES IN AMERICAN FICTION

Spring term. Credit four hours. Mr. Slatoff.
The novels of William Faulkner.

The following three graduate courses are under development:

A. DIRECTED STUDY

A course, usually but not necessarily taken early in the student's graduate career, in which under the supervision of a professor he reads works which relate to his individual program of study. *Or*, a course in which under the supervision of a professor the student explores areas in which no appropriate seminars are offered; the subject matter may consist of a problem formulated by the student (perhaps culminating in a paper), or of background material relevant to the student's major interests, or both.

B. GROUP STUDY

A course formulated by students in which they meet to consider problems or areas of mutual interest, under the sponsorship of one or more professors.

C. TEACHING AND RESEARCH

A course which combines participation (including some teaching) in a professor's undergraduate course with reading supervised by the same professor.

GERMANIC STUDIES

Faculty: Vilhjálmur T. Bjarnar, Eric A. Blackall, Lucy Collings, Joseph B. Dallett, Herbert Deinert, Eleonore Frey, Hans-Jost Frey, Alexander Gelley, Sander L. Gilman, Thomas D. Hill, Herbert L. Kufner, Pardee Lowe, Jr., Frans van Coetsem.

Professor-at-Large: Elizabeth M. Wilkinson.

Field Representative: Herbert L. Kufner, 136 Morrill Hall.

MINOR SUBJECTS

German Literature
Germanic Linguistics
Old Norse

MAJOR SUBJECTS

German Literature
Germanic Linguistics

ADMISSION REQUIREMENTS. The normal requirement for admission is a good background in German literature and a reasonable fluency in the German language; some acquaintance with Middle High German and a reading knowledge of a foreign language other than German are also highly desirable. Applicants must submit their scores on the Graduate Record Examination Aptitude Test, though in special circumstances this requirement may be waived. For scores to be available by the time applications for fellowships are reviewed, the examination must be taken no later than December.

Both M.A. and Ph.D. degrees are granted in Germanic Studies. The Field normally prefers to admit students who intend to remain at Cornell for the doctorate. Those who wish to acquire the Master's degree for teaching at the secondary school level will be encouraged to apply to Cornell's Master of Arts in Teaching program rather than to the Field's M.A. program.

LANGUAGE REQUIREMENTS. For the M.A. degree: proficiency in German, as determined by the entrance examination in German administered by the Department of German Literature.

For the Ph.D. degree: besides proficiency in German, proficiency in French (required of all students majoring in German Literature) or in Russian (required of all students majoring in Germanic Linguistics).

EXAMINATION REQUIREMENTS. Three examinations are required of candidates for the Ph.D. degree in Germanic Studies: (1) the qualifying examination, usually given at the end of the first year to assess the student's capacity for Ph.D. work; (2) the Admission to Candidacy Examination, a comprehensive examination usually taken in the third year when the student has completed virtually all other requirements for his degree except the dissertation; and (3) the Final Examination (oral) on the candidate's thesis. Students who successfully complete the Admission to Candidacy Examination receive the M.A. degree at that time (unless they already hold this degree). For further details see the *Guide for Graduate Students in German at Cornell University*, available from the Chairman of the Department of German Literature or the Field Representative.

FINANCIAL AID. Cornell has an enviable fellowship program under which virtually all doctoral students receive full support for four years and four summers (in one of these years, in the Field of Germanic Studies, the support is in the form of a teaching fellowship). Incoming students can qualify for Cornell fellowships, foundation awards, and for NDEA Title IV fellowships (see p. 15). Among the special opportunities for advanced graduate study abroad are the Schurman Fellowship (available annually to a Cornell student in any field for work at the University of Heidelberg), the *Dankstipendium* given every year to a Cornell student by the German Federal Republic for a year's study in any field in West Germany, and the German Academic Exchange Service (DAAD) Fellowship which is similarly made available annually to Cornell students. While these special awards are not restricted to those in the Field of Germanic Studies, it is they who often stand to profit the most from graduate study in the German Federal Republic.

Description of the Field

In the Field of Germanic Studies the student may concentrate in either linguistics or literature. Besides completing the requirements for his major and minor, the student is expected to devote a significant part of his work to courses of his own free choice. He can, for example, avail himself of the wide offerings at Cornell in European medieval literature and philology, including Old Norse; another approach would be an interdepartmental program in the eighteenth century (also a period in which the offerings at Cornell are unusually attractive); an interest in comparative literature, history, music, philosophy, general linguistics, anthropology, or mathematics can similarly be developed within the student's program in Germanic Studies. The doctoral program, in literature as well as linguistics, normally takes four years—two years of full-time study, one year (usually the second) combining apprentice teaching with study, and a final year reserved for the completion of the Ph.D. thesis. Apprentice teaching is an essential part of the program for all students. Provision is made in the third year for study abroad, if that seems desirable. Course requirements for the Master's degree can usually be completed within one year. A Master's thesis is required only if the degree is to be a terminal one. A Master's thesis may be written in either English or German.

GERMAN LITERATURE. In consultation with his Special Committee the student works out a plan of study that, building on his knowledge of particular authors, genres, and movements, aims at familiarizing him with the whole development of German literature and giving him a first-hand acquaintance with selected major texts from the Middle High German period to the present. At the same time, the student chooses for special emphasis one of three partially overlapping periods: German literature before 1700, German literature from 1500–1832, or German literature from 1750 on. Through course work and private directed study the student also seeks to deepen his understanding of literary criticism and of the techniques and goals of scholarly research. His program culminates in the writing of the Ph.D. dissertation.

The special interests of the staff in the area of literature are as follows: medieval literature and philology: Mrs. Collings and Mr. Lowe; the late Middle Ages, the sixteenth century: Mr. Dallett and Mr. Gilman; the seventeenth century: Mr. Dallett, Mr. Deinert, and Mrs. Frey; the eighteenth century, the classical age: Mr. Blackall and Mr. Gilman; Romanticism and realism: Mr. Blackall, Mr. Deinert, and Mrs. Frey; twentieth-century literature: Mr. Deinert and Mr. Gilman; stylistics: Mr. Blackall and Mr. Dallett.

GERMANIC LINGUISTICS. The student's program should aim at ensuring his familiarity with the basic tools of research in linguistics and philology (including descriptive techniques and a good grasp of the principles of historical linguistics) and at providing him with a thorough knowledge of the structure of modern German, the contrastive analysis of German and English, the history of the German language, four of the older Germanic languages, and comparative Germanic linguistics. Reading courses are available for many aspects of study, along with seminars investigating such special topics as typology of the Germanic languages and computational research on Modern German. The faculty's wide range of scholarly concerns in the field of Germanic linguistics and philology—extending chronologically from Gothic to modern German dialects—ensures that in writing his dissertation the student can count on interested guidance, whatever the subject of his investigation.

The special interests of the staff are as follows: Mr. Bjarnar and Mr. Lowe: Old Norse; Mr. van Coetsem: Netherlandic, Frisian, Gothic, Old High German, Old Saxon, Early New High German, comparative Germanic grammar; Mr. Blackall, Mr. Kufner, and Mr. Lowe: history of the German language, Modern German grammar; Mr. Kufner: German dialects, applied linguistics, pedagogy; Mr. Jones: transformational grammar, computer-aided analysis of Modern German.

OLD NORSE. The opportunities for studying Old Norse at Cornell are exceptional. The University is especially favored with a collection of Old Norse materials (the Old Icelandic Collection) that is probably the most important of its kind in the world, and with a curator, Vilhjálmur Bjarnar, who is both a librarian and an Old Norse scholar.

LIBRARY FACILITIES. The excellent opportunities for original research in the Field of Germanic Studies are suggested by the fact that the Cornell library ranks among the seven leading university libraries in this country. The John M. Olin Research Library has rich holdings in the area of Germanic Studies, including a comprehensive representation of the relevant series and periodicals. Among its rarities are contemporary editions of many sixteenth-, seventeenth-, and eighteenth-century German authors, as well as numerous

incunabula from German presses, and the Old Icelandic Collection mentioned above.

ACCREDITED STUDY IN EUROPE. Advanced students wishing to do research, or to supplement their training, at a European university for credit at Cornell may spend up to one year abroad; fellowship money awarded through the Graduate School may be used for this purpose.

Courses

Courses for 1970-71 will for the most part be chosen from those listed below, but with some change in topics.

401-402. HISTORY OF THE GERMAN LANGUAGE

Throughout the year. Credit four hours a term. Given in alternate years. Prerequisite: German 204 and Linguistics 201, or consent of the instructor. Fall term: Mr. Kufner. Spring term: Mr. Lowe.

403. LINGUISTIC STRUCTURE OF GERMAN

Fall term. Credit four hours. Prerequisite: German 204 and Linguistics 201 or consent of the instructor. Mr. Jones.

A descriptive analysis of present-day German, with emphasis on its phonetics, phonemics, morphology, and syntax.

404. GERMAN FOR TEACHERS

Spring term. Credit four hours. Prerequisite: 403. Mr. Jones.

Methods of teaching the language based on a contrastive study of the structures of English and German. Extensive outside reading, reports on textbooks, discussion of various teaching aids and realia.

405. INTRODUCTION TO MIDDLE HIGH GERMAN

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mrs. Collings.

Intended for students with no previous knowledge of Middle High German; will begin with study of the Middle High German language and then proceed to the reading of selected texts.

408. TOPICS IN EARLIER GERMAN LITERATURE: 1300-1700

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Dallett.

410. TOPICS IN CLASSICISM AND ROMANTICISM

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mrs. Frey.

413. TOPICS IN MODERN GERMAN LITERATURE I

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Gilman.

Topic: Socially conscious literature of the nineteenth century.

414. TOPICS IN MODERN GERMAN LITERATURE II

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Gilman.

Topic: Literature of the DDR.

415. BIBLIOGRAPHY AND METHODS

Fall term. Credit four hours. Prerequisite: consent of the instructor.

417-418. THE GREAT MOMENTS OF GERMAN LITERATURE

Throughout the year. Credit four hours a term. Mr. Blackall.

The course is recommended for graduate students and undergraduates, whether majoring in German or not, who wish to acquire an overall view of the whole range of German literature from the earliest texts to the present day. The only prerequisite will be a reading knowledge of German. Two weekly lectures will aim at a characterization of the temper of a period or of the essential nature of a certain writer. A discussion period will concentrate on individual works illustrative of the topics of the lectures.

501. INTRODUCTION TO GERMANIC LINGUISTICS

Fall term in alternate years. Credit four hours. Mr. van Coetsem.

502. GOTHIC

Spring term in alternate years. Credit four hours. Mr. van Coetsem.

503-504. OLD SAXON, OLD HIGH GERMAN, OLD LOW
FRANCONIAN, OLD FRISIAN

Throughout the year. Credit four hours a term. Given in alternate years. Prerequisite: Linguistics 201. Mr. van Coetsem.

509-510. OLD NORSE

Throughout the year. Credit four hours a term. Mr. Bjarnar.

The grammar and phonological history of the language will be treated, and the student will be introduced to representative selections from the literature of Old Icelandic.

511. SAGAS

Fall term. Credit four hours. Prerequisite: 510 or consent of the instructor. Mr. Lowe.

512. EDDAS

Spring term. Credit four hours. Prerequisite: 510 or consent of the instructor. Mr. Lowe.

513. SEMINAR IN OLD NORSE LANGUAGE AND LITERATURE

Fall term. Credit four hours. Mr. Lowe.

514. SKALDIC POETRY

Spring term. Credit four hours. Mr. Lowe.

521. MIDDLE HIGH GERMAN LITERATURE I

Fall term. Credit four hours. Prerequisite: 405 or consent of the instructor. Mrs. Collings.

Topic: The courtly epic. Emphasis on Wolfram von Eschenbach.

522. MIDDLE HIGH GERMAN LITERATURE II

Spring term. Credit four hours. Prerequisite: 405 or consent of the instructor. Mrs. Collings.

Topic: The Nibelungen legend and its literary manifestations.

523. GERMAN LITERATURE OF THE LATE MIDDLE AGES

Fall term. Credit four hours. Mr. Dallett.

525. SIXTEENTH-CENTURY GERMAN LITERATURE

Fall term. Credit four hours. Mr. Dallett.

527. SEVENTEENTH-CENTURY GERMAN LITERATURE

Fall term. Credit four hours. Mr. Dallett.

530. EIGHTEENTH-CENTURY LITERATURE OTHER THAN GOETHE

Spring term. Credit four hours.

531. GOETHE

Fall term. Credit four hours. Mr. Blackall.

533. GERMAN ROMANTICISM

Fall term. Credit four hours. Mr. Blackall.

Topic: The early Romantics.

535. NINETEENTH-CENTURY GERMAN LITERATURE

Fall term. Credit four hours. Mr. Deinert.

Topic: Kleist.

538. TWENTIETH-CENTURY GERMAN LITERATURE

Spring term. Credit four hours. Mr. Deinert.

Topic: Hauptmann and Brecht.

540. HISTORY AND METHODS OF MODERN GERMAN LITERARY CRITICISM

Spring term. Credit four hours.

542. GOETHE'S *WESTÖSTLICHER DIVAN*

Spring term. Credit four hours.

COMPARATIVE LITERATURE 466. THE NOVEL IN THE ROMANTIC PERIOD

COMPARATIVE LITERATURE 501-502. TOPICS IN MODERN LITERATURE

COMPARATIVE LITERATURE 520. EIGHTEENTH-CENTURY AESTHETICS

Seminars

These seminars are intended for graduate students who are beyond the first year of their graduate study. Each seminar will deal with a specific topic in more detail than is possible in the graduate courses. The topics of the seminars will vary from year to year.

651-652. SEMINARS IN GERMANIC LINGUISTICS

Throughout the year, subject to the needs of students and to the limitations of staff time. Credit four hours. Hours to be arranged. Various staff members.

Seminars will be set up in a variety of topics which may include the following: comparative Germanic linguistics, typology of the Germanic languages, primitive Nordic, runology, computational research on modern German, transformational analysis of German, German dialectology, Dutch dialectology, Modern Frisian, and other topics.

653-654. SEMINAR IN GERMAN LITERATURE

Throughout the year. Credit four hours a term. Staff.

Usually offered as a private reading course or a small group tutorial, and offered simultaneously by several members of the staff, according to demand.

HISTORY

Faculty: Daniel Baugh, Knight Biggerstaff, David Davidson, Edward W. Fox, Paul W. Gates, Henry Guerlac, Clive Holmes, James J. John, Michael Kammen, Helmut G. Koenigsberger, Dominick LaCapra, Walter F. LaFeber, Frederick G. Marcham, John E. Martin, Charles A. Peterson, Walter M. Pintner, Richard Polenber, Clinton Rossiter, Joel H. Silbey, James M. Smith, Fred Somkin, Brian Tierney, Mack Walker, L. Pearce Williams, Oliver W. Wolters, David Wyatt.

Field Representative: Frederick G. Marcham, W. Sibley Hall.

MAJOR AND MINOR SUBJECTS

American History	Medieval Chinese History
American Studies	Medieval History
Ancient History	Modern Chinese History
Early Modern European History	Modern European History
English History	Russian History
History of Science	Southeast Asian History
Latin American History	

All applicants for admission to this Field must include the scores of the Graduate Record Examination Aptitude Test with their other credentials.

Each major subject area of study within the Department formulates its own foreign language requirement.

Candidates majoring in the Field of History may take minors in other history subjects or in other Fields of the Graduate School.

Each graduate student is required to be a teaching fellow during one year of his residence.

For available fellowships, see p. 14.

Courses

311-312. SCIENCE IN WESTERN CIVILIZATION

Throughout the year. Credit three hours a term. Prerequisite: one year of college science; 311 or consent of the instructor prerequisite to 312.

335. MEDIEVAL CULTURE, 400-1150

Spring term. Credit four hours. Prerequisite: 303-304 or consent of the instructor. Mr. John.

336. MEDIEVAL CULTURE, 1150-1300

Spring term. Credit four hours. Prerequisite: 303-304 or consent of the instructor. Mr. John.

341-342. EUROPE IN THE AGE OF THE RENAISSANCE, REFORMATION, AND COUNTER-REFORMATION

Throughout the year. Credit four hours a term. Prerequisite: six hours in European history or consent of the instructor. Mr. Koenigsberger.

347. ENGLISH CONSTITUTIONAL HISTORY I: TO 1485

Fall term. Credit four hours. Prerequisite: 303-304, 307, or consent of the instructor. Mr. Tierney.

348. ENGLISH CONSTITUTIONAL HISTORY II: SINCE 1485

Spring term. Credit four hours a term. Prerequisite: 307-308, 347, or consent of the instructor.

351. EUROPE IN THE NINETEENTH CENTURY

Fall term. Credit four hours. Prerequisite: 106 or consent of the instructor. Mr. Fox.

352. EUROPE IN THE TWENTIETH CENTURY

Spring term. Credit four hours. Prerequisite: 106 or 351, or consent of the instructor. Mr. Fox.

353-354. EUROPEAN INTELLECTUAL AND SOCIAL HISTORY IN THE NINETEENTH AND TWENTIETH CENTURIES

Throughout the year. Credit four hours a term. Either term may be taken independently and without prerequisite. Mr. LaCapra.

355-356. MODERN GERMAN HISTORY

Throughout the year. Credit four hours a term. Either term may be taken independently and without prerequisite. Mr. Walker.

369-370. SCIENCE SINCE 1850

Throughout the year. Credit four hours a term. Prerequisite: either an intense interest in the history of modern science (see the instructor) or two years of college science; 369 is not prerequisite to 370. Mr. Williams.

371. COLONIZATION FROM ANTIQUITY UNTIL THE EIGHTEENTH CENTURY

Fall term. Credit four hours. Mr. Kammen.

372. THE COLONIAL PERIOD OF AMERICAN HISTORY, 1607-1763

Spring term. Credit four hours. Mr. Kammen.

373-374. THE STRUCTURE OF AMERICAN POLITICAL HISTORY

Throughout the year. Credit four hours a term. 373 is not prerequisite to 374. Mr. Silbey.

375. THE AMERICAN CIVIL WAR AND RECONSTRUCTION

Spring term. Credit four hours. Mr. Silbey.

376. AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1600-1820.

Spring term. Credit four hours. Mr. Somkin.

377. AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1820-1890

Fall term. Credit four hours. No prerequisite, but some background in nineteenth-century history and literature is taken for granted. Mr. Somkin.

378. AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1890 TO THE PRESENT

Spring term. Credit four hours. No prerequisite, but some background in twentieth-century history and literature is taken for granted, and it is recommended that 377 be taken before 378. Mr. Somkin.

379. AMERICAN HISTORY FROM 1890-1917

Fall term. Credit four hours. Mr. Polenberg.

380-381. RECENT AMERICAN HISTORY, 1917 TO THE PRESENT

Throughout the year. Credit four hours a term. Mr. Polenberg.

383-384. HISTORY OF AMERICAN FOREIGN RELATIONS

Throughout the year. Credit four hours a term. Mr. LaFeber.

431. THE ROMAN REPUBLIC, 133-30 B.C.

Fall term. Credit four hours. Prerequisite: 302 or consent of the instructor.

432. GREEK HISTORY, 500-336 B.C.

Spring term. Credit four hours. Prerequisite: 301 or consent of the instructor.

433. THE ROMAN EMPIRE, 30 B.C.-A.D. 180

Fall term. Credit four hours. Prerequisite: 302 or consent of the instructor.

434. HELLENISTIC AGE

Spring term. Credit four hours. Prerequisite: 301-302 or consent of the instructor.

437. CHURCH AND STATE DURING THE MIDDLE AGES

Fall term. Credit four hours. Prerequisite: 303-304 or consent of the instructor. Mr. Tierney.

438. FRANCE IN THE HIGH MIDDLE AGES

Spring term. Credit four hours. Prerequisite: 303-304 or consent of the instructor. Mr. Tierney.

442. ESTATES AND PARLIAMENTS IN EARLY MODERN EUROPE

Spring term. Credit four hours. Prerequisite: six hours of European history and consent of the instructor. Mr. Koenigsberger.

444. THE CENTURY OF ENLIGHTENMENT

Spring term. Credit four hours. Prerequisite: a reading knowledge of French and six hours in European history. Mr. Guerlac.

445. SOURCES OF EIGHTEENTH-CENTURY FRENCH HISTORY

Fall term. Credit four hours. Prerequisite: a reading knowledge of French and permission of the instructor. Mr. Guerlac.

446. THE OLD REGIME IN FRANCE, 1660-1789

Spring term. Credit four hours. Prerequisite: a reading knowledge of French and six hours of European history. Mr. Guerlac.

450. HISTORY OF ENGLAND IN THE NINETEENTH AND TWENTIETH CENTURIES

Fall term. Credit four hours. Prerequisite: 307-308 or consent of the instructor.

456. GERMAN PROBLEMS IN HISTORICAL PERSPECTIVE

Spring term. Credit four hours. Prerequisite: 355 or 356, or consent of the instructor. Mr. Walker.

461. ECONOMIC AND SOCIAL HISTORY OF RUSSIA

Fall term. Credit four hours. Prerequisite: 309-310 or consent of the instructor. Mr. Pintner.

462. HISTORY OF RUSSIAN FOREIGN RELATIONS FROM THE FIFTEENTH CENTURY

Spring term. Credit four hours. Prerequisite: 309-310 or consent of the instructor. Mr. Pintner.

466. ORIGINS OF MODERN SCIENCE: THE CHEMICAL REVOLUTION

Fall term. Credit four hours. Prerequisite: 311-312 or consent of the instructor. Mr. Guerlac.

467. INTELLECTUAL CURRENTS OF THE SEVENTEENTH CENTURY

Spring term. Credit four hours. Prerequisite: 311-312 or consent of the instructor. Mr. Guerlac.

470. THE UNITED STATES IN THE MIDDLE PERIOD, 1815-1850

Fall term. Credit four hours. Mr. Silbey.

471. PROBLEMS IN AMERICAN POLITICAL HISTORY

Spring term. Credit four hours. Mr. Silbey.

472. EUROPE AND THE ORIGINS OF AMERICAN CIVILIZATION

Spring term. Credit four hours. Mr. Kammen.

473. AGE OF THE AMERICAN REVOLUTION, 1763-1783

Fall term. Credit four hours. Mr. Smith.

474. THE NEW NATION, 1783-1815

Spring term. Credit four hours. Mr. Smith.

475. AMERICAN HISTORIOGRAPHY IN THE MIDDLE PERIOD

Fall term. Credit four hours. Mr. Somkin.

476. PROBLEMS IN SOUTHERN HISTORY FROM COLONIAL PERIOD TO THE CIVIL WAR

Fall term. Credit four hours. Prerequisite: 215-216 or consent of the instructor. Mr. Martin.

481-482. AMERICAN HISTORY: HISTORY OF THE WEST

Throughout the year. Credit four hours a term. First term not prerequisite to second. Mr. Gates.

486. MOTIVATIONS OF AMERICAN FOREIGN POLICY

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. LaFeber.

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487. MEXICO IN THE TWENTIETH CENTURY

Fall term. Credit four hours. Prerequisite: 319-320 or consent of the instructor.

488. BRAZIL SINCE INDEPENDENCE

Spring term. Credit four hours. Prerequisite: 319-320 or consent of the instructor.

489. LATIN AMERICA IN THE ERA OF INDEPENDENCE

Fall term. Credit four hours. Prerequisite: 319-320 or consent of the instructor. A reading knowledge of Spanish or Portuguese is recommended.

492. CHINESE HISTORY: T'ANG AND SUNG PERIODS

Spring term. Credit four hours. Prerequisite: 323 or consent of the instructor. Mr. Peterson.

495. SOUTHEAST ASIAN HISTORY TO THE FOURTEENTH CENTURY

Fall term. Credit four hours. Mr. Wolters.

496. SOUTHEAST ASIAN HISTORY FROM THE FIFTEENTH CENTURY

Spring term. Credit four hours. Prerequisite: 495 or consent of the instructor. Mr. Wyatt.

551. EVOLUTION OF THE FRENCH REPUBLIC

Spring term. Credit four hours. Prerequisite: a reading knowledge of French and consent of the instructor. Mr. Fox.

553. THE EUROPEAN REVOLUTION, 1789-1848

Fall term. Credit four hours. Prerequisite: a reading knowledge of French and consent of the instructor. Mr. Fox.

554. THE MODERNIZATION OF EUROPE

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Fox.

593. MODERNIZATION OF CHINA

Fall term. Credit four hours. Mr. Biggerstaff.

594. MODERNIZATION OF CHINA

Spring term. Credit four hours. Prerequisite: 593. Mr. Biggerstaff.

Seminars

501. INTRODUCTION TO HISTORICAL THEORY AND PRACTICE

Fall term. Credit four hours. Required of all entering graduate students in the Field of History (exemption may be granted by the student's committee chairman).

Problems of historical thought, research, and writing, as illustrated by historians representative of various cultures, periods, and schools. Intensive supervision in the preparation of a term paper.

511-512. SUPERVISED READING

Throughout the year. Credit four hours a term. Staff.

591. CHINESE HISTORIOGRAPHY AND SOURCE MATERIALS

Fall term. Credit four hours. Prerequisite: consent of the instructor, Mr. Peterson.

631-632. SEMINAR IN ANCIENT HISTORY

One or two terms. Credit four hours a term.

635-636. SEMINAR IN MEDIEVAL HISTORY

One or two terms. Credit four hours a term. Mr. John.

637-638. SEMINAR IN MEDIEVAL HISTORY

One or two terms. Credit four hours a term. Mr. Tierney.

639-640. SEMINAR IN LATIN PALEOGRAPHY

Throughout the year. Credit four hours a term. First term prerequisite to second. Mr. John.

641-642. SEMINAR IN EARLY MODERN EUROPEAN HISTORY

One or two terms. Credit four hours a term. Mr. Koenigsberger.

647-648. SEMINAR IN TUDOR AND STUART HISTORY

One or two terms. Credit four hours a term. Mr. Holmes.

649-650. SEMINAR IN MODERN BRITISH HISTORY

One or two terms. Credit four hours a term. Mr. Baugh.

651-652. SEMINAR IN MODERN EUROPEAN HISTORY

One or two terms. Credit four hours a term. Mr. Fox.

653-654. SEMINAR IN MODERN EUROPEAN INTELLECTUAL HISTORY

One or two terms. Credit four hours a term. Mr. LaCapra.

657-658. SEMINAR IN MODERN GERMAN HISTORY

One or two terms. Credit four hours a term. Mr. Walker.

661-662. SEMINAR IN RUSSIAN HISTORY

One or two terms. Credit four hours a term. Mr. Pintner.

663-664. SEMINAR IN THE HISTORY OF BIOLOGY

One or two terms. Credit four hours a term. Mr. Provine.

665-666. SEMINAR IN THE HISTORY OF EARLY MODERN SCIENCE

One or two terms. Credit four hours a term. Mr. Guerlac.

667-668. SEMINAR IN THE HISTORY OF SCIENCE DURING THE NINETEENTH AND TWENTIETH CENTURIES

One or two terms. Credit four hours a term. Mr. Williams.

669-670. SEMINAR IN THE HISTORY OF COLONIZATION AND COLONIAL DEVELOPMENT

One or two terms. Credit four hours a term. Mr. Kammen.

671-672. SEMINAR IN EARLY AMERICAN HISTORY

One or two terms. Credit four hours a term. Mr. Smith.

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673-674. SEMINAR IN AMERICAN POLITICAL HISTORY AND THE ANTE-BELLUM PERIOD

One or two terms. Credit four hours a term. Mr. Silbey.

675-676. SEMINAR IN AMERICAN CULTURAL AND INTELLECTUAL HISTORY

One or two terms. Credit four hours a term. Mr. Somkin.

679-680. SEMINAR IN THE HISTORY OF THE AMERICAN WEST

One or two terms. Credit four hours a term. Mr. Gates.

683-684. SEMINAR IN THE HISTORY OF AMERICAN FOREIGN RELATIONS

Throughout the year. Credit four hours a term. Mr. LaFeber.

685-686. SEMINAR IN RECENT AMERICAN HISTORY

One or two terms. Credit four hours a term. Mr. Polenberg.

687-688. SEMINAR IN LATIN AMERICAN HISTORY

One or two terms. Credit four hours a term. Mr. Davidson.

691-692. SEMINAR IN MEDIEVAL CHINESE HISTORY

One or two terms. Credit four hours a term. Mr. Peterson.

693-694. SEMINAR IN MODERN CHINESE HISTORY

One or two terms. Credit four hours a term. Mr. Biggerstaff.

695-696. SEMINAR IN SOUTHEAST ASIAN HISTORY

One or two terms. Credit four hours a term. Mr. Wolters, Mr. Wyatt.

HISTORY OF ART AND ARCHAEOLOGY

Faculty: Theodore M. Brown, Robert G. Calkins, Thomas Leavitt, Stanley J. O'Connor, Albert S. Roe, Frederick O. Waage, Martie W. Young.

Visiting Professor: Alexander B. Griswold.

Field Representative: Robert G. Calkins, 32 Goldwin Smith.

MAJOR AND MINOR SUBJECTS

American Art

Ancient Art and Archaeology

Medieval Art

Modern Art

Oriental Art

Renaissance and Baroque Art

ADMISSION REQUIREMENTS. An undergraduate major in the Field of the History of Art is, of course, recommended; however, students who have completed with distinction majors in related fields of the humanities such as literature, philosophy, history, etc., and have had some basic course work in the history of art, should feel encouraged to apply. In certain cases, some additional advanced undergraduate course work may be recommended for first-year students to round out their previous experience. All applicants are strongly urged to take the Graduate Record Examination, preferably no later than December, and to see that their applications and all supporting materials are sent by February 1.

LANGUAGE REQUIREMENTS. Because proficiency in foreign languages is essential for advanced study in the History of Art, it is expected that all applicants to Cornell will have begun a study of French, German, Italian or some other foreign language appropriate to their intended programs before admission. Students must present evidence of reading proficiency in this language before advancement to the status of candidacy for the Ph.D. or M.A. degree. In some cases the Special Committee may require the student to do work in an additional language related to his special area.

TEACHING REQUIREMENTS. Each candidate for the Ph.D. degree will be required to participate in the teaching process in this Department during at least two terms of his residence at Cornell. Normally this teaching experience will take place in the student's second or third year. In preparation, the candidate will be expected to attend and observe the operation of the course during a term of the preceding year. During the student's first term as a teaching assistant, he will work under the direct supervision of a faculty member but will be totally responsible for a class. In addition, the student will assist a faculty member in the preparations for a major lecture course.

EXAMINATIONS. The comprehensive Admission to Candidacy Examination for the doctoral degree will be both written and oral and will test extensive knowledge of the material, bibliography, and scholarship of the major and two minor subjects. The dissertation and the oral Final Examination on the dissertation must be preceded by at least two terms of residence related to preparation of the thesis. For those seeking a Master of Arts degree as a terminal degree, there will be an examination, either oral or oral and written, to test general knowledge of basic areas of the discipline and more substantial and detailed familiarity with the areas of the major and minor. This examination will ordinarily come at the end of the third or fourth term of residence.

Students from other Fields who choose a minor in the History of Art and Archaeology will be assigned course work as appropriate; they will also be expected to pass an oral and written examination in the general area of the minor.

FINANCIAL AID. The Department is able to award several teaching fellowships and a graduate fellowship. Several Kress Foundation Fellowships are also available. The Franklin and Gretel Goldring Memorial Fellowship provides summer travel support in Europe for several advanced students. The Field is among those which participate in the NDEA Title IV Program. For further information on opportunities for financial aid, see p. 14.

RESEARCH AND STUDY OPPORTUNITIES. For beginning graduate students, a program of regular course work will be set up by the students' Special Committees: a letter explaining more fully the requirements and procedures of the Department will be sent to applicants accepted into the program. Graduate students normally take seminars, reading courses under members of the faculty, and 300-level offerings in the Department or in related areas. A 200-level course may be taken by graduate students for credit only if additional individual work is assigned and completed. More advanced graduate students will pursue independent study under faculty direction.

Major study facilities are provided by the collections of Olin Library, which contain resources of primary material for this Field, and of the Fine Arts Library in Sibley Hall, which provides a constantly expanding collection of holdings in art and architectural history totaling at the present time approximately 55,000 volumes. The Andrew Dickson White Museum of Art

has in its permanent collection significant study material, especially in the areas of graphic art, American art, and the art of the Far East. A program of special exhibitions is provided, and a number of major exhibitions are organized annually. Opportunities are available for graduate students to gain experience in the operations of the Museum and to assist with problems of installation, catalog preparation, etc. In addition to having occasional opportunities to visit the major collections in New York City, the graduate student in Ithaca is within reasonable distance of such important institutions as the Albright Art Gallery in Buffalo, the Memorial Art Gallery in Rochester, and the Munson-Williams-Proctor Institute in Utica. The Department of the History of Art is the repository of a study collection of photographs of works of art and of a rapidly expanding collection of some 70,000 slides, which is especially strong in American, modern, and Oriental art.

In certain subjects a balanced graduate program will normally entail work in various other Fields and in related area programs. In the history of architecture there is a joint program with the College of Architecture, Art, and Planning. An interdepartmental program is available in archaeology, and a pamphlet describing the various offerings will be sent on request. The Asian Studies Program also issues a publication with a full description of the facilities in the various areas of Far Eastern studies. A study Archive of Chinese Art is being developed within the Department of the History of Art. Students working in the area of Southeast Asian art will be able to attend a short but intensive seminar to be conducted each summer by Mr. Alexander Griswold at the Breezewood Foundation near Baltimore, Maryland, which houses an outstanding study collection of Siamese art. Other related fields, such as history, philosophy, literature, etc., provide the opportunity for strong minor programs in connection with many areas of the history of art.

The areas of specialization of the members of the graduate faculty are as follows: American art: Mr. Roe, Mr. Leavitt; ancient art and archaeology: Mr. Waage; medieval art and architecture: Mr. Calkins; modern art: Mr. Roe, Mr. Leavitt; nineteenth-century art and modern architecture: Mr. Brown; oriental art: Mr. Young (Chinese and Japanese art), Mr. O'Connor, Mr. Griswold (art of Southeast Asia and India); Renaissance and baroque art: Mr. Roe.

Courses

Students are advised to consult the *Announcement of the College of Arts and Sciences* for the courses given during the current academic year.

313. PREHISTORIC ART

Fall term. Credit four hours. Mr. Waage.

314. PRIMITIVE ART: THE ART OF TRIBAL SOCIETIES

Spring term. Credit four hours. Mr. Waage.

331. ART OF THE MIDDLE AGES

Fall term. Credit four hours. Mr. Calkins.

332. ARCHITECTURE OF THE MIDDLE AGES (also Architecture 433)

Fall term. Credit four hours. Mr. Calkins.

341. FLEMISH ART

Spring term. Credit four hours. Mr. Calkins.

347. ART OF THE EARLY RENAISSANCE IN ITALY

Fall term. Credit four hours. Mr. Calkins.

349. ITALIAN RENAISSANCE ARCHITECTURE (also Architecture 436)

Spring term. Credit four hours. Mr. Calkins.

356. ART OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES

Spring term. Credit four hours. Mr. Roe.

357. EUROPEAN ART OF THE EIGHTEENTH CENTURY

Fall term. Credit four hours. Mrs. Dotson.

367. MODERN EUROPEAN ARCHITECTURE (also Architecture 439)

Fall term. Credit four hours. Mr. Brown.

372. ROMANTICISM IN PAINTING

Spring term. Credit four hours. Mr. Leavitt.

375. AMERICAN ART OF THE EIGHTEENTH AND NINETEENTH CENTURIES

Spring term. Credit four hours. Mr. Roe.

376. MODERN AMERICAN ART

Fall term. Credit four hours. Mrs. Benson.

380. COMPARATIVE GENRES IN EAST-WEST ART

Spring term. Credit four hours. Mrs. King.

383. ART OF CHINA

Fall term. Credit four hours. Mr. Young.

384. ART OF JAPAN

Spring term. Credit four hours. Mr. Young.

386. THE ARTS OF INDIA AND SOUTHEAST ASIA

Fall term. Credit four hours. Mr. O'Connor.

405. ORIGINAL WORKS OF ART

Spring term. Credit four hours. Mr. Leavitt.

411. TECHNIQUES AND MATERIALS: PAINTING

Fall term. Credit four hours.

412. TECHNIQUES AND MATERIALS: GRAPHICS

Spring term. Credit four hours.

421. METHODS OF HISTORICAL AND CRITICAL WRITING ON ART

Spring term. Credit four hours. Different members of the Department.

431. GREEK SCULPTURE

Spring term. Credit four hours. Mr. Waage.

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432. ARTS OF THE ROMAN EMPIRE

Spring term. Credit four hours. Mr. Waage.

446. LITERARY SOURCES IN THE ITALIAN RENAISSANCE

Spring term. Credit four hours.

531. PROBLEMS IN MEDIEVAL ART AND ARCHITECTURE

(also Architecture 473)

Spring term. Credit four hours. Mr. Calkins.

548. STUDIES IN ITALIAN RENAISSANCE ART

Fall term. Credit four hours. Mr. Roe.

552. STUDIES IN ENGLISH ART

Spring term. Credit four hours. Mr. Roe.

563. PROBLEMS IN TWENTIETH-CENTURY ART

Fall term. Credit four hours. Mrs. Benson.

565. PROBLEMS IN MODERN ARCHITECTURE (also Architecture 479)

Spring term. Credit four hours. Mr. Brown.

572. PROBLEMS IN AMERICAN ART

Spring term. Credit four hours. Mr. Roe.

584. PROBLEMS IN CHINESE ART

Spring term. Credit four hours. Mr. Young.

586. STUDIES IN CHINESE PAINTING

Spring term. Credit four hours. Mr. Young.

588. SOUTHEAST ASIAN ART AND ARCHAEOLOGY

Fall term. Credit four hours. Mr. O'Connor.

591-592. SUPERVISED READING

Throughout the year. Credit four hours.

Archaeology

Students who are interested in archaeology are directed especially to History of Art 313, 314, 432, and 588, all of which include archaeological material. The following specialized courses treat specific excavational material and procedures, and are therefore open only to a limited number of students who have some background in ancient history, ancient languages, anthropology, or art history.

521. NUMISMATICS

Fall term. Credit four hours. Mr. Waage.

523. CERAMICS

Fall term. Credit four hours. Mr. Waage.

LINGUISTICS

A complete description of Cornell's linguistics program, together with a listing of courses, is given in the *Announcement of the Graduate School: Social Sciences*.

Specialization in linguistics is offered by several Fields of the Graduate School. A minor subject in English linguistics is given by the Field of English Language and Literature. The Field of Romance Studies offers majors and minors in French linguistics, Italian linguistics, Romance linguistics, and Spanish linguistics. The Field of Germanic Studies has majors and minors in Germanic linguistics. Majors and minors in Slavic linguistics are offered by the Field of Slavic Studies. There is a minor in Indo-European linguistics in the Field of Classics. All of these will be found in this *Announcement* under the headings for the various Fields.

MEDIEVAL STUDIES

Faculty: Barry B. Adams, Vilhjálmur T. Bjarnar, Robert G. Calkins, Alice M. Colby, Lucy G. Collings, Joseph B. Dallett, Robert T. Farrell, Frederick A. Foos, Robert A. Hall, Jr., Thomas D. Hill, James Hutton, Alfred L. Ivry, James J. John, Robert E. Kaske, Norman Kretzmann, Pardee Lowe, Jr., Giuseppe F. Mazzotta, Gordon M. Messing, Hugh M. Olmsted, Isaac Rabino-witz, Brian Tierney, Frans van Coetsem, Winthrop Wetherbee III.

Visiting Professors: Oscar Büdel, Moshé Lazar, David Patterson, Robert B. Tate.

Field Representative: Robert E. Kaske, 165 Goldwin Smith Hall.

MAJOR AND MINOR SUBJECTS

Medieval Art

Medieval History

Medieval Literature: English,

German, Latin, Norse, Romance,
Semitic, Slavic

Medieval Philology: Germanic,

Latin, Romance, Semitic, Slavic

Medieval Philosophy

The aim of this Field is to allow the student to concentrate more fully upon medieval studies and to supplement his major interest with a greater number of courses in related disciplines than is possible within the programs of other Fields which include some medieval studies as part of their province.

Though certain requirements are absolute (e.g., a reading knowledge of Latin and a course in paleography and research methods), emphasis will be on the formulation of individual programs to fit the interests and needs of particular students and on the meaningful combination of mutually relevant disciplines. All degree candidates must have one minor, and Ph.D. candidates may have two minors. The minor or minors may, if it seems desirable, be taken in other Fields of the Graduate School. Teaching experience is required of all Ph.D. degree candidates.

There are no special requirements for admission to the Field of Medieval Studies, but a broad undergraduate major in one of the participating disciplines should ideally precede concentration in this Field at the graduate level.

All applicants, whether or not they are in need of financial assistance, are strongly urged to take the Graduate Record Examination Aptitude Test and

an appropriate Advanced Test, if such exists. These tests should be taken no later than December. In order to be eligible for all forms of financial aid, the prospective student should make every effort to file his application, together with all supporting material, by February 1.

LANGUAGE REQUIREMENTS. For the M.A. degree, proficiency in Latin and either French or German is required; for the Ph.D. degree, proficiency in Latin, French, and German.

EXAMINATION REQUIREMENTS. The Admission to Candidacy and Final Thesis Examinations, required by the Graduate School, are fully described on p. 11-12 of this *Announcement*.

Further information concerning the Field of Medieval Studies is to be found in the Field's brochure, which can be obtained by writing to the Field Representative.

Courses

The following list of courses and seminars has been assembled from the offerings of 1968-69 and 1969-70 and is intended to be illustrative. The majority of them are given every year. For further information, consult the Fields of The Classics, Comparative Literature, English, Germanic Studies, History, History of Art and Archaeology, Music, Philosophy, Romance Studies, Semitic Studies, and Slavic Studies.

ARABIC

317. ISLAMIC TEXTS IN ARABIC

Mr. Ivry.

318. ARABIC GEOGRAPHERS AND HISTORIANS

Mr. Ivry.

461. MEDIEVAL ARABIC *BELLES LETTRES* ('*ADAB*)

Mr. Ivry.

462. ARABIC PHILOSOPHERS

Mr. Ivry.

491. SEMINAR IN ISLAMIC PHILOSOPHICAL LITERATURE

Otherwise qualified graduate students who cannot read Arabic texts may be admitted with the consent of the instructor. Mr. Ivry.

CLASSICS

367-368. MEDIEVAL LATIN LITERATURE

Mr. Messing and Mr. Wetherbee.

423. VULGAR LATIN

Mr. Messing.

COMPARATIVE LITERATURE

333-334. MEDIEVAL LITERATURE

Throughout the year. Credit four hours a term. Fall term: Mr. Kaske. Spring term: Mr. Mazzotta.

Fall term: analysis and interpretation of great medieval literary works in translation. Though readings will vary somewhat from year to year, a typical program would be: *Beowulf*; *Chanson de Roland*; *Njálssaga*; a romance of Chrétien; Wolfram's *Parzival*; Gottfried's *Tristan* and/or *Sir Gawain and the Green Knight*; *Pearl*; *Piers Plowman*. Spring term: Dante.

404. MEDIEVAL ARTHURIAN LITERATURE

Mr. Wetherbee.

639-640. SPECIAL TOPICS IN MEDIEVAL STUDIES

Staff of the medieval studies program.

ENGLISH

306. THE EARLIEST ENGLISH LITERATURE

Spring term. Credit four hours. Mr. Hill.

Cultural backgrounds, reading, and critical analysis of Anglo-Saxon poetry in translation, pagan and Christian epic, elegy, heroic legend, and other forms. Attention will be given to the relations of this literature to that of later periods.

365. CHAUCER

Fall term. Credit four hours. Mr. Farrell.

Reading and critical analysis: *Troilus* and a large selection from the *Canterbury Tales*.

501. READINGS IN OLD ENGLISH

Mr. Farrell.

502. BEOWULF

Mr. Hill or Mr. Farrell.

503. MIDDLE ENGLISH

Mr. Kaske.

504. CHAUCER

Mr. Kaske.

508. THE ENGLISH LANGUAGE

Mr. Farrell.

512. MEDIEVAL DRAMA

Mr. Adams.

608. STUDIES IN MEDIEVAL LITERATURE

Mr. Kaske.

FRENCH

401-402. HISTORY OF THE FRENCH LANGUAGE

Mr. Benoit.

447-448. MEDIEVAL LITERATURE

Miss Colby.

540. INTRODUCTION TO FRENCH PHILOLOGY

Mr. Hall.

546. MEDIEVAL SEMINAR: VILLON

Miss Colby.

555. HISTORICAL PHONOLOGY OF FRENCH

Mr. Civera.

558. LINGUISTIC STRUCTURES OF OLD AND MIDDLE FRENCH

Mr. Noblitt.

GERMANIC STUDIES

401-402. HISTORY OF THE GERMAN LANGUAGE

Mr. Kufner and Mr. Lowe.

405. INTRODUCTION TO MIDDLE HIGH GERMAN

Mrs. Collings.

502. GOTHIC

Mr. van Coetsem.

503-504. OLD SAXON, OLD HIGH GERMAN, OLD LOW
FRANCONIAN, OLD FRISIAN

Mr. van Coetsem.

509-510. OLD NORSE

Mr. Bjarnar.

511. SAGAS

Mr. Lowe.

512. EDDAS

Mr. Lowe.

521. MIDDLE HIGH GERMAN LITERATURE I

Mrs. Collings.

522. MIDDLE HIGH GERMAN LITERATURE II

Mrs. Collings.

HEBREW

305. POSTBIBLICAL HEBREW PROSE II

Mr. Ivry.

307. POSTBIBLICAL HEBREW POETRY

Mr. Patterson.

432. MEDIEVAL HEBREW LITERATURE

Mr. Ivry.

472. SEMINAR IN MEDIEVAL JEWISH PHILOSOPHY

Otherwise qualified students who cannot read Hebrew and Arabic texts may be admitted with the consent of the instructor. Mr. Ivry.

HISTORY

303-304. MEDIEVAL HISTORY

Throughout the year. Credit three hours a term; 303 is not prerequisite to 304. Fall term: Mr. John. Spring term: Mr. Tierney.

Fall term: A survey of the main trends of political, economic, intellectual, and religious development in Europe from the fourth to the twelfth century; spring term: from the twelfth to the fifteenth century.

336. MEDIEVAL CULTURE, 1150-1300

Mr. John.

347. ENGLISH CONSTITUTIONAL HISTORY I: TO 1485

Mr. Tierney.

437. CHURCH AND STATE DURING THE MIDDLE AGES

Mr. Tierney.

635-636. SEMINAR IN MEDIEVAL HISTORY

Mr. John.

637-638. SEMINAR IN MEDIEVAL HISTORY

Mr. Tierney.

639-640. SEMINAR IN LATIN PALEOGRAPHY

Mr. John.

HISTORY OF ART

331. ART OF THE MIDDLE AGES

Mr. Calkins.

332. ARCHITECTURE OF THE MIDDLE AGES

Mr. Calkins.

341. FLEMISH ART

Mr. Calkins.

531. PROBLEMS IN MEDIEVAL ART AND ARCHITECTURE

Mr. Calkins.

ITALIAN

343-344. PETRARCH

345-346. DANTE

435. HISTORY OF THE ITALIAN LANGUAGE

Mr. Hall.

545. SPECIAL TOPICS IN *THE DIVINE COMEDY*

LINGUISTICS

441-442. HISTORY OF THE ROMANCE LANGUAGES

Mr. Hall.

443-444. COMPARATIVE ROMANCE LINGUISTICS

Mr. Hall.

449. AREAL TOPICS IN ROMANCE LINGUISTICS

Mr. Hall.

Old Provençal is frequently the language offered.

561-562. COMPARATIVE SLAVIC LINGUISTICS

Mr. Foos.

MUSIC

683-684. PALEOGRAPHY

Mr. Randel.

PHILOSOPHY

303. MEDIEVAL PHILOSOPHY

Mr. Kretzmann.

580. MEDIEVAL PHILOSOPHY

Mr. Kretzmann.

Topic: Aquinas' metaphysics and natural theology.

RUSSIAN

401-402. HISTORY OF THE RUSSIAN LANGUAGE

Mr. Leed.

501. OLD CHURCH SLAVIC

Mr. Olmsted.

502. OLD RUSSIAN

Mr. Olmsted.

521. RUSSIAN LITERATURE FROM THE BEGINNINGS TO 1700

Mr. Olmsted.

SPANISH

401-402. HISTORY OF THE SPANISH LANGUAGE

Mr. Lozano or Mr. Saltarelli.

413. THE EPIC

440. MEDIEVAL LITERATURE

541. SEMINAR IN SPANISH LITERATURE: FOURTEENTH-CENTURY NARRATIVE FICTION

Mr. Tate.

MUSIC

Faculty: William W. Austin, John Hsu, Karel Husa, Robert M. Palmer, Don M. Randel, Harold E. Samuel, Thomas A. Sokol.

Professor-at-Large: Elliott Carter.

Field Representative: William W. Austin, Lincoln Hall.

MAJOR AND MINOR SUBJECTS

Musical Composition
Musicology

Theory of Music

The Master of Arts degree is awarded in musicology and theory of music. The Master of Fine Arts degree (M.F.A.) is awarded in musical composition. The Doctor of Philosophy degree is conferred in musicology, and the Doctor of Musical Arts degree (D.M.A.) in musical composition.

Applicants for admission are asked to submit scores for the Graduate Record Examination Aptitude Test. All applicants also must take a test of musical proficiency, including sight singing, melodic and harmonic dictation, score reading, and sight reading at the piano. The faculty of the Department of Music believes that anyone intending to pursue any aspect of music as his life work should have facility in playing and sight reading at the keyboard. Each student will be expected to demonstrate this facility to the satisfaction of his Special Committee before taking his examination for the M.A. or M.F.A. degree, or his Admission to Candidacy Examination for the Ph.D. or D.M.A. degree. Sample copies of the test of musical proficiency and further information may be obtained from the office of the Music Department.

Minimum language requirements for the M.A. and Ph.D. degrees in musicology are a reading knowledge of French and German; for the M.A. degree in theory and for the M.F.A. and D.M.A. degrees in composition, a reading knowledge of French or German. These requirements may be satisfied by one of the following procedures: (a) undergraduate qualification in the Division of Modern Languages by the CEEB Examination, or course work and the CEEB Examination; or (b) passing of the ETS Graduate Foreign Language Test (at a high level in the case of students in musicology). All students in the Field of Music need to continue to develop a more intimate knowledge of the required languages (and others); upon recommendation of their Special Committee, they may be asked to show such knowledge by formal or informal examinations. Applicants who are admitted with deficiencies either in language proficiency or in basic musicianship (as determined by the Music

Proficiency Test) should make up these deficiencies within their first year of residence at Cornell, and in any case must make them up before scheduling the Admission to Candidacy Examination.

A student is admitted to doctoral candidacy after he has passed the Admission to Candidacy Examination administered by his Special Committee (see p. 11). The passing of this examination certifies that the student is eligible to present a thesis to the Graduate School Faculty. A model examination may be consulted in the Department office. For a Master's degree candidate who has fulfilled all the prerequisites for the examination for admission to doctoral candidacy, the final examination for the Master's degree may be combined with the Admission to Candidacy Examination.

Compositions of student composers are performed by members of the faculty of the Department of Music, including Robert Bloch, violinist, Barbara Troxell, soprano, and Malcolm Bilson, pianist; by ensembles conducted by Professors Husa, Sokol, and others; and by occasional visitors.

The Music Library, a part of the University Library system, is housed in the Department of Music. It has an outstanding collection of the standard research tools, including collected editions, *Denkmäler*, and periodicals. The Music Library's holdings consist of 50,000 books and scores and 15,000 records. Particularly noteworthy are the collections of opera scores from all periods, scores and records of music from the contemporary period, and a large microfilm collection of Renaissance sources, both theoretical and musical.

William W. Austin, the specialist in music of the twentieth century, and Don M. Randel, medievalist, work closely with the students whose studies are mainly historical. The composers, Robert Palmer and Karel Husa, are in charge of students in theory and composition. The former is also a pianist with wide-ranging interests in music of all periods, and the latter is an active conductor both in the United States and abroad. John Hsu, cellist and gambist, in addition to performing, is actively engaged in editing the largely unknown solo gamba repertoire of seventeenth- and eighteenth-century France. Choral activities are under the direction of Thomas A. Sokol, who specializes in vocal music of the Spanish Renaissance. The Music Librarian, Harold E. Samuel, editor of the journal of the Music Library Association, *Notes*, teaches bibliography and works in early seventeenth-century German music.

Courses

381-382. HISTORY OF MUSIC I

Throughout the year. Credit four hours a term. First term prerequisite to second. Mr. Randel.

History of musical styles from the Middle Ages to Beethoven. Intensive study of musical scores, readings from theoretical sources (in translation), and written reports.

451. EIGHTEENTH-CENTURY COUNTERPOINT AND ANALYSIS

Fall term. Credit four hours. Staff.

Advanced problems of contrapuntal writing in three voices. An introduction to invertible counterpoint and fugal writing. Representative works employing the fugal principle will be analyzed, with particular attention to those of J. S. Bach.

452. SIXTEENTH-CENTURY COUNTERPOINT AND ANALYSIS

Spring term. Credit four hours. Staff.

Contrapuntal techniques of the sixteenth century, including the analysis of works by Palestrina and his contemporaries.

[456. ORCHESTRATION]

Spring term. Credit four hours. Mr. Husa. Not offered in 1970-71.

457-458. COMPOSITION (PROSEMINAR)

May be entered either term. Credit four hours a term. Messrs. Palmer and Husa.

Problems of writing in the smaller forms and in various media. Class discussion and performance with analysis of contemporary works. The basic techniques of composition and their extensions in the twentieth century will be related to individual ability and needs. Students will be required to attend the Friday afternoon reading sessions of student compositions and occasionally to attend rehearsals of the Cornell musical organizations and ensembles.

481. HISTORY OF MUSIC II

Fall term. Credit four hours. Prerequisite: 382. Staff.

History of musical styles from the time of Beethoven to the present.

482. MUSICOLOGY (PROSEMINAR)

Spring term. Credit four hours. Prerequisite: 481. Staff.

Principles of research. Introduction to notation, with exercises in transcription from sources, and preparation of performing editions.

551. INTRODUCTION TO CONTEMPORARY MUSIC

Fall term. Credit two hours. Mr. Palmer.

Approaches to the analysis of short works of representative composers, with emphasis on only one or two techniques in each composition.

555. ANALYSIS

Fall term. Credit four hours. Mr. Palmer.

An introduction to the systematic analysis of musical structure, melody, and harmony. Emphasis on the Viennese classic composers and Bach, with some consideration of later music.

557-558. SEMINAR IN COMPOSITION

Throughout the year. Credit four hours a term. Mr. Palmer.

Intended to make the student acquainted with compositional practices in contemporary styles and to develop his creative abilities.

581-582. INTRODUCTION TO BIBLIOGRAPHY AND RESEARCH

Throughout the year. Credit four hours a term. Prerequisite: a reading knowledge of French and German and an elementary knowledge of music theory and general music history. Mr. Samuel.

The basic materials and techniques of musicological research.

585-586. DEBUSSY TO BOULEZ

Throughout the year. Credit four hours a term. Prerequisite: 551 and 582 or equivalent. Mr. Austin.

652. CONTEMPORARY MUSIC (SEMINAR)

Spring term. Credit two hours. Prerequisite: 551. Mr. Palmer.

Detailed analysis of a limited number of larger works representative of main trends in twentieth-century music. Different works are chosen each year.

681-682. MUSICOLOGY (SEMINAR)

Throughout the year. Credit four hours a term. Staff.

683-684. PALEOGRAPHY

Throughout the year. Credit four hours a term. Prerequisite: reading knowledge of French and German; reading knowledge of Latin is desirable. Mr. Randel.

Studies in the history of musical notation and theory from the tenth to the sixteenth centuries. Transcriptions and performance from original notation.

PHILOSOPHY

Faculty: Max Black, Stuart M. Brown, Jr., Keith S. Donnellan, Arthur Fine, Bruce C. Goldberg, Johan A. W. Kamp, Norman Kretzmann, David B. Lyons, Norman Malcolm, Richard R. K. Sorabji, Michael Stocker, Allen W. Wood.

Visiting Professors: C. Chastain, H. Ishiguro, J. Kim.

Professor-at-Large: Georg Henrik von Wright, University of Helsinki.

Field Representative: Arthur Fine, 321 Goldwin Smith Hall.

MAJOR SUBJECTS

Aesthetics
Epistemology
Ethics
History of Philosophy
Logic
Metaphysics
Philosophy of Religion
Philosophy of Science

MINOR SUBJECTS

Aesthetics
Epistemology
Ethics
History of Philosophy
Logic
Metaphysics
Philosophy
Philosophy of Religion
Philosophy of Science
Political Philosophy

THE SAGE SCHOOL. The Susan Linn Sage School of Philosophy, which comprises the Field of Philosophy in the Graduate School, was founded through the generosity of Henry W. Sage, who endowed the Susan Linn Sage Professorship and gave in addition \$200,000 to provide permanently for instruction and research in philosophy.

There are at present twelve faculty members engaged in full-time instruction and three in part-time instruction. The total number of graduate students in residence is presently fixed at thirty-seven. Thus graduate students are provided with unusual opportunities for discussion and personal contact with faculty members.

The faculty of the Sage School manages and edits *The Philosophical Review*, one of the best-known philosophical journals.

ADMISSION REQUIREMENTS. The instruction offered to graduate students presupposes such undergraduate courses in the subject as would be taken by a student in the College of Arts and Sciences of Cornell University who had elected philosophy as a major subject. Those who have not had equivalent preparation are expected to make up their deficiencies outside the work required for an advanced degree.

The aim of the Field in graduate work is to devote its resources primarily to the instruction of students who expect to proceed to the Ph.D. degree with a major in philosophy. It is not the normal policy of the Field to accept as graduate students those who have no intention of pursuing academic work beyond the M.A. degree. However, the Field will be prepared to accept as M.A. degree candidates those students who expect to continue advanced studies later, either in philosophy or in some other field, and those who, while not expecting to pursue graduate work beyond the M.A. degree, nevertheless give satisfactory evidence of a serious interest in philosophy.

THE CURRICULUM. The Field of Philosophy provides opportunity for advanced study to two classes of graduate students: those whose major interest is in some branch of philosophy; and those whose chief branch of research is in allied fields but who desire to supplement this with a minor in philosophy.

1. A student whose major interest is in philosophy is required (a) to gain a general knowledge of the whole subject including its history, and (b) to select some aspect or subdivision of it for intensive study and research.

2. A student having a major interest in literature or the arts, in history or social studies, or in mathematics or a branch of experimental science is permitted to choose a minor in philosophy with such emphasis as best suits his needs. For such a student the School endeavors to outline a plan of philosophical study (in courses or directed reading) which will form a natural supplement to his field of research.

A doctoral candidate is normally in residence for four years. During the first two he takes a total of twelve courses or seminars at the rate of three per semester; this period is also devoted to preparation for the Admission to Candidacy Examination. There is a distribution requirement in logic; namely, that each student must pass Philosophy 412, or an equivalent course, with a grade of B or better. This requirement should be met by the end of the second semester of residence. During the second two years the student writes his thesis.

The three members of the candidate's Special Committee advise him in his choice of courses, are consulted when he writes his thesis, and are included among his examiners. A new graduate student chooses his Special Committee in consultation with the Field Representative, but a candidate for the Ph.D. degree is required to reconstitute his Committee before beginning systematic work on his thesis.

The meetings of the Philosophy Discussion Club are among the outstanding features of the graduate program at Cornell. Membership is limited to graduate students and faculty members in the Field of Philosophy, undergraduate Honors candidates, and others by invitation. Every fortnight the Club meets to hear a paper from one of its members or a visiting scholar. The papers are short, and ample time is provided for discussion. A number of distinguished philosophers visit the Club every year.

LANGUAGE REQUIREMENTS. There are no Field-wide foreign language requirements for M.A. or Ph.D. candidates. It is expected that a student's Special Committee will require competence in those areas, including foreign

languages, which are germane to his education in philosophy and to his preparation for the pursuit of philosophical scholarship.

EXAMINATIONS. (1) If there is doubt whether a student should continue study for the Ph.D. degree after his first semester, he will be given an examination early in the second semester, based on the written work done in his first semester and on any other materials he wishes taken into account. The same criterion is used to determine whether a terminal M.A. degree candidate shall proceed to the writing of an M.A. essay.

(2) The Admission to Candidacy Examination is currently being revised, but it now consists of three written parts and an oral part, to be completed by the end of the second year of study. These include: (a) a four-hour examination in ethics and the history of ethics, to be taken in the second fall semester; (b) a four-hour examination in the history of philosophy, excluding the history of ethics, to be taken in the second spring semester; (c) a four-hour examination on philosophical problems, excluding problems in ethics, to be taken in the second spring semester; (d) an oral review of the written parts, to be taken at the end of the second spring semester.

(3) The Final Examination will be an oral examination on the candidate's thesis and related topics, given after the thesis has been approved by the candidate's Special Committee. Two units of residence credit (normally two semesters) are required after passing the Admission to Candidacy Examination before the Final Examination may be scheduled.

Terminal M.A. degree candidates write an essay of 6,000-10,000 words, on a subject chosen in consultation with the candidate's Special Committee. They are given an oral examination on this essay and related subjects.

FINANCIAL AID. Financial support for the full four-year residence period is available for new students. The Field of Philosophy requires teaching experience for all graduate students as a condition for the award of the Ph.D. degree. This training shall be limited to two or three of the student's eight semesters in residence, and is done usually within the second or third years. Teaching fellows devote a maximum of fifteen hours per week to their work.

Special Areas of Research

Max Black: philosophy of mathematics, philosophy of science, semantics, philosophy of logic.

Stuart M. Brown, Jr.: political theory.

Keith S. Donnellan: metaphysics, epistemology, philosophy of language.

Arthur Fine: advanced logic, philosophy of science, philosophy of mathematics.

Bruce C. Goldberg: history of philosophy, philosophy of mind, philosophy of language.

Johan A. W. Kamp: advanced logic, philosophy of logic, philosophy of science.

Norman Kretzmann: medieval philosophy and logic, ancient philosophy and logic, history of semantics.

David B. Lyons: moral, political, and legal philosophy.

Norman Malcolm: epistemology, philosophy of mind, history of philosophy, metaphysics.

Richard R. K. Sorabji: ancient philosophy, ancient science.

Michael Stocker: moral, political, and legal philosophy; philosophy of history; philosophy of religion.

Allen W. Wood: existentialism, phenomenology, history of philosophy, philosophy of religion.

Georg Henrik von Wright: philosophy of science, modal logic, moral philosophy.

JOINT PROGRAM IN ANCIENT PHILOSOPHY WITH THE FIELD OF CLASSICS. The object of the joint program is to meet the demand for scholars of ancient philosophy who are competent in both philosophy and classics. Participants may specialize in one discipline or the other, but it is intended they shall become competent in both. They will be required to take courses in both Fields and their Special Committees will be composed of faculty members from both. At present there are two scholars of ancient philosophy in the program: Norman Kretzmann and Richard Sorabji. Among recent and present visitors teaching at Cornell are several scholars of ancient philosophy, Arthur Adkins, David Keyt, and Michael Woods.

When ancient philosophy is taken as a major subject, the course requirements are as follows: (a) two courses on Plato (one in classics, one in philosophy), (b) two courses on Aristotle (similarly divided), (c) two additional courses in the Department of Classics, (d) two additional courses in the Department of Philosophy, (e) four remaining courses determined by consultation with the student's Special Committee. Thus a basic core of courses will be in Plato and Aristotle. There are several ancient philosophy courses available which can be taken in partial fulfillment of requirements (c), (d), and (e).

Participants either should have had three years of Greek on admission, or should pass a sight-reading test in Greek after one semester. The Department of Classics provides instruction in Greek at various levels. For those who have had none, an accelerated course will be available in the Summer Session.

Courses Open to Graduate Students

Courses numbered 500 or above are conducted as graduate seminars. Topics listed below are for seminars offered in 1969-70; the topic under each heading is likely to vary from year to year.

551. PHILOSOPHY OF RELIGION

576. ANCIENT PHILOSOPHY

580. MEDIEVAL PHILOSOPHY

585. ETHICS AND VALUE THEORY

Mr. Lyons.

Bentham and utilitarianism.

587. AESTHETICS

588. METAPHYSICS

Miss Ishiguro.

Liebniz' logic and philosophy of language.

589. METAPHYSICS

Mr. Kim.

112 PHILOSOPHY

590. PHILOSOPHY OF LANGUAGE

Fall term: Mr. Donnellan. Spring term: Mr. Goldberg.

Fall term: Speech acts. Spring term: Justification.

594. THEORY OF KNOWLEDGE

Mr. Malcolm.

Explanations of memory.

595. SEMANTICS AND LOGIC

Mr. Black.

Nelson Goodman's *Languages of Art*.

596. LOGIC

Mr. Kamp.

597. THE PHILOSOPHY OF SCIENCE

Mr. Fine.

Space and time.

Courses numbered 400-499 are open both to graduate students and to seniors majoring in philosophy. These are usually of seminar size but meet several times each week.

403. PLATO AND ARISTOTLE

Mr. Sorabji.

Body and soul in Aristotle.

412. DEDUCTIVE LOGIC

Mr. Kamp.

413. DEDUCTIVE LOGIC

414. PHILOSOPHY OF LOGIC

Mr. Donnellan.

416. METAPHYSICS

417. THEORY OF KNOWLEDGE

418. INDUCTIVE LOGIC

419. INTENSIONAL LOGIC

Mr. Kamp.

425. CONTEMPORARY ETHICAL THEORY

Mr. Stocker.

Value and obligation.

427. PROBLEMS IN PHILOSOPHY OF SCIENCE

433. PROBLEMS IN ETHICS AND PHILOSOPHY OF MIND

Mr. Sturgeon.

Practical reasons and practical attitudes.

Courses numbered 300-399 are primarily for undergraduates. The Department decides each year which 300-level courses should be open to graduate

students. The following 300-level courses have been open to graduate students in recent years.

301. MODERN PHILOSOPHY I

302. MODERN PHILOSOPHY II

Mr. Donnellan.

303. MEDIEVAL PHILOSOPHY

304. ANCIENT PHILOSOPHY AND SCIENCE

305. SPECIAL TOPICS IN THE HISTORY OF PHILOSOPHY

Miss Ishiguro.

307. KANT

314. INTRODUCTION TO PHILOSOPHY OF MATHEMATICS

Mr. Fine.

325. ETHICAL THEORY

Mr. Stocker.

327. INTRODUCTION TO PHILOSOPHY OF SCIENCE

333. PHILOSOPHY OF PSYCHOLOGY

Mr. Malcolm.

RELATED COURSES IN OTHER DEPARTMENTS

CLASSICS: Courses on the Presocratics, Plato, Aristotle, Lucretius, and Cicero.

HISTORY: Courses on the history of science.

LINGUISTICS 513-514. TRANSFORMATIONAL ANALYSIS

MATHEMATICS: Courses on logic and theory of models.

SEMITIC STUDIES: Courses both on Arabic and Jewish philosophers.

ROMANCE STUDIES

Faculty: Frederick B. Agard, L. J. Benoit, Jerome Bernstein, Gian-Paolo Biasin, Dalai Brenes, Alice M. Colby, Herbert Dieckmann, Charles L. Eastlack, Hans-Jost Frey, David I. Grossvogel, Robert A. Hall, Jr., John Kronik, A. G. Lozano, Giuseppe Mazzotta, Edward P. Morris, Jean Parrish, Mario D. Saltarelli, Alain Sez nec, Donald F. Solá.

Visiting Professor: Robert B. Tate.

Field Representative: David I. Grossvogel, Goldwin Smith Hall.

MAJOR AND MINOR SUBJECTS

French Linguistics

French Literature

Italian Linguistics

Italian Literature

Romance Linguistics

Spanish Linguistics

Spanish Literature

ADMISSION REQUIREMENTS. The Field requires applicants to submit scores of the Aptitude and Advanced Tests of the Graduate Record Examination (see p. 7).

LANGUAGE REQUIREMENTS. The Field requires that the M.A. degree candidate pass a reading examination in French and that the doctoral degree candidate pass reading examinations in both French and German. In certain cases Russian may be substituted for German. The doctoral candidate will be expected to pass one of these examinations upon entrance. The Field further requires that candidates for both M.A. and Ph.D. degrees either pass a Latin examination administered by the Field, or pass, with a grade of B- or better, a one-semester course in Latin literature at either the 100- or 200-level, depending on the degree sought. The graduate student in Romance literature must further take a one-semester course in the history of his major language or satisfy the chairman of his Special Committee that he has had the equivalent course elsewhere. All language requirements must be met before the Admission to Candidacy Examination.

Field Requirements

In the Field of Romance Studies the student may concentrate either in linguistics or in literature.

ROMANCE LINGUISTICS. In Romance linguistics, the student is given training in four types of study and research: (1) general principles of linguistic analysis; (2) the description of the structure of the Romance language of his major interest; (3) the external and internal history of that language; and (4) the genetic and typological relationships of the Romance family of languages. Special emphasis is laid on the relation between linguistic history and cultural factors (literary, political, and social). A concomitant aim of this area is to afford instruction and practice in the application of linguistics to the teaching of one or more Romance languages.

Candidates in Romance linguistics may choose as their major subject either the linguistics (descriptive and historical) of a specific Romance language or the comparative study of the Romance languages. Such candidates will normally have, as one of their minor subjects, the literature of the language in which their major interest lies. A prior knowledge of Latin is desirable; a candidate without prior knowledge of Latin will be expected to acquire a working acquaintance with its linguistic structure and history. Each candidate's program will be determined in individual consultation with his Special Committee.

ROMANCE LITERATURE (French Literature, Italian Literature, and Spanish Literature). Graduate studies in Romance literature are designed to train students as scholars and as teachers of language and literature. The Field expects its candidates to acquire a certain fund of knowledge and certain skills. Under the heading of knowledge may well be included: direct knowledge of literary texts; literary history; intellectual history; philology; social and political history; biography; and linguistic theory. The most important skills are the critical understanding of texts, the explication of texts, annotating and editing of texts, and identifying and developing critical and scholarly problems.

The Field offers the opportunity to spend one year in the country of their major interest to students who have passed the Admission to Candidacy Examination.

There are relatively few requirements imposed by the Graduate School or by the Field. As a Master's degree candidate, the student will usually spend his time broadening his interests; as a Ph.D. degree candidate he will spend more time studying a given area in depth.

Applicants who have had no prior graduate study may apply for direct admission to the doctoral program. Those with superior records and qualifications may be admitted directly; others may be admitted for the Master's program if their intent is clearly to go on to the doctorate. Later admission to the doctoral program can be assured by a distinguished record at the Master's level. Those who wish to acquire the Master's degree for teaching at the secondary school level will be encouraged to apply to Cornell's Master of Arts in Teaching program rather than to the Field's Master of Arts program.

Students will be expected to teach at least one full year either in the Division of Modern Languages or in the Department of Romance Studies. Their teaching will be closely supervised and will form an integral part of the doctoral program. Ordinarily, students will not teach during their first year of residence.

Graduate students are expected to meet certain standards at specified points in their training. Incoming students in French literature will take both a written examination and an oral interview in their major language. The oral interview will be based on the reading list sent at the beginning of the summer preceding entrance. The written examination will determine the student's ability to write French, and most entering students will find it advisable to do at least one year's course work in that language.

Ordinarily, students majoring in a Romance literature will choose one minor, within this Field. With the consent of the Chairman of his Special Committee, however, a candidate for the Ph.D. may elect two minors, one of which may be in another Field.

Candidates for the Master's degree are expected to take five one-semester courses in their major and three in their minor. They will also take a course in the history of the language of their major. By the end of their third term of residence, students will be expected to demonstrate proficiency in the major language and in Latin. All first-year students will attend a proseminar in literary studies.

A Master's thesis or essay will be written in the language of the major, except in cases where the major language is also the native language.

Candidates for the Ph.D. degree are expected to take eight one-semester courses in their major. They will take five or six courses in a single minor or three courses in each of two minors. The course program will be chosen in consultation with the candidate's Special Committee.

Faculty Specializations

Cornell's Field of Romance Studies is particularly strong in Romance linguistics and in French literature of the eighteenth and twentieth centuries. The following are specialties of the faculty:

Frederick B. Agard: Spanish and Italian linguistics.

L. J. Benoit: French linguistics.

Jerome Bernstein: Latin American studies, the modern Spanish novel.

Gian-Paolo Biasin: nineteenth- and twentieth-century Italian literature.

Dalai Brenes: the Spanish Golden Age.

Alice M. Colby: medieval French literature.

Herbert Dieckmann: Diderot, eighteenth-century European novel.

Charles L. Eastlack: Portuguese linguistics.

Hans-Jost Frey: nineteenth-century French literature.

David I. Grossvogel: twentieth-century French literature.

Robert A. Hall, Jr.: Italian and French linguistics.

John Kronik: nineteenth- and twentieth-century Spanish literature.

A. G. Lozano: Spanish linguistics.

Giuseppe Mazzotta: Dante studies.

Edward P. Morris: sixteenth-century French literature.

Jean Parrish: eighteenth-century French literature.

Mario D. Saltarelli: Spanish linguistics.

Alain Sezec: seventeenth-century literature.

Donald F. Solá: Spanish linguistics.

The Field strongly encourages research in related areas of study, e.g., the Fields of Comparative Literature and Medieval Studies (Professors Kaske, Kretzmann, John, and Tierney), as well as with the distinguished specialists in the eighteenth century (Professors Abrams, Blackall, and Guerlac).

Courses

This list of course offerings is based on the academic year 1969-70 and is meant to serve only as a typical sample. Students should check with the Department as to additional offerings, times, places, etc.

LINGUISTICS 441-442. HISTORY OF THE ROMANCE LANGUAGES

Throughout the year in alternate years. Credit four hours a term. Mr. Hall.

LINGUISTICS 443-444. COMPARATIVE ROMANCE LINGUISTICS

Throughout the year in alternate years. Credit four hours a term. Mr. Hall.

LINGUISTICS 445. PROBLEMS AND METHODS IN ROMANCE LINGUISTICS

Fall term every third year. Credit four hours. Mr. Hall.

LINGUISTICS 446. ROMANCE DIALECTOLOGY

Spring term every third year. Credit four hours. Mr. Hall.

LINGUISTICS 449. AREAL TOPICS IN ROMANCE LINGUISTICS

Fall term every third year. Credit four hours. Course may be repeated. Mr. Hall.

FRENCH

401-402. HISTORY OF THE FRENCH LANGUAGE

Throughout the year in alternate years. Credit four hours a term. Prerequisite: qualification in French, and Linguistics 201. Mr. Benoit.

403. LINGUISTIC STRUCTURE OF FRENCH

Fall term. Credit four hours. Prerequisite: qualification in French and Linguistics 201. Messrs. Civera and Noblitt.

A descriptive analysis of present-day French, with emphasis on its phonetics, phonemics, morphology, and syntax. Required of students seeking teacher certification by New York State.

404. FRENCH FOR TEACHERS

Spring term. Credit four hours. Prerequisite: qualification in French. Mr. Benoit and Mrs. Gordon.

Survey of current teaching methods, preparation of teaching materials, selection and use of textbooks and realia, further study of phonetics, syntax, and culture as needed. Required of students seeking teacher certification by New York State.

429. COMPOSITION AND STYLE

Fall term. Credit four hours. Limited to ten students. Prerequisite: placement at the departmental French language examination. Mr. Béreaud.

French 429 will normally be taken by all entering graduate students in French, with the exception of those exempted on the basis of the departmental examination, and those who, not being prepared to undertake work at the level of French 429, will be asked first to take French 303 or 304. French 429 presupposes competence in the handling of French vocabulary, syntax, and idiom. The purpose is to teach the writing of French as a means of effective expression on literary and historical subjects. Review of advanced grammar; translations from and into literary French; lexical, stylistic, and methodological study of selected French critical works; literary *explication de textes*; study of French versification; analysis of literary topics, and composition of outlines. Short daily or weekly papers. Conducted in French.

430. STYLISTICS

Spring term. Credit four hours. Mr. Morris.

The emergence of a modern "science of style," and some applications. Readings in such theorists and analysts as Lanson, Curtius, Spitzer, and the recent, linguistically inclined critics. The development of stylistics will be treated historically; main theories of style will be tested against examples chosen from French literature. Frequent short oral and written reports. Conducted in French.

449. MEDIEVAL SEMINAR

Fall term. Credit four hours. Prerequisite: two terms of 300-level French literature courses or consent of the instructor. Mr. Lazar.

The devil and hell in medieval French literature.

461. PENSEURS AND MORALISTES, 1637-1697

Fall term. Credit four hours. Prerequisite: French 201-202 or consent of the instructor. Mr. Lewis.

Introduction to and/or *selective* readings in Descartes, Malebranche, Perrault, Cyrano, Boileau, Fénelon, La Bruyère, La Fontaine, and others, with reference to major currents and movements in seventeenth-century thought. Analytic readings and careful study of interpretive problems encountered in Pascal's nonscientific works and La Rochefoucauld's *Maximes* and *Réflexions diverses*, with reference to the problematics of a "crise de conscience" in the 1660s. Class discussion and papers in French.

466. LA FONTAINE

Spring term. Credit four hours. Prerequisite: French 201-202 and consent of the instructor. Mr. Seznec.

The emphasis will be on La Fontaine the poet. The major text read will be the *Fables*.

540. INTRODUCTION TO FRENCH PHILOLOGY

Spring term. Credit four hours. Required of all graduate students in French literature. Mr. Hall.

A study of the phonological, morphological, syntactical, and etymological developments which most frequently create problems for the student of literature.

549. MEDIEVAL SEMINAR: TEXTUAL CRITICISM

Fall term. Credit four hours. Mr. Lazar.

The participants in this seminar will prepare and publish an edition of a medieval French text.

554. GALLO-ROMANCE DIALECTOLOGY

Spring term in alternate years. Credit four hours. Prerequisite: Linguistics 431-432, or 433-434, or consent of the instructor. Mr. Benoit.

555. HISTORICAL PHONOLOGY OF FRENCH

Fall term. Credit four hours. Prerequisite: Linguistics 201 or consent of the instructor. Mr. Civera.

The detailed study of sound changes from Latin to French, with attention to intermediate stages.

558. LINGUISTIC STRUCTURES OF OLD AND MIDDLE FRENCH

Spring term. Credit four hours. Prerequisite: French 403 or consent of the instructor. Mr. Noblitt.

An attempt at synchronic linguistic analysis of the French of approximately A.D. 1100 to 1600.

579. EIGHTEENTH-CENTURY SEMINAR: MARIVAUD

Fall term. Credit four hours. Mrs. Parrish.

Marivaux's works, including both representative novels and plays, will be read with a view to assessing as accurately as possible this author's contribution to two of the most important eighteenth-century genres.

597. GRADUATE SEMINAR IN TWENTIETH-CENTURY LITERATURE

Fall term. Credit four hours. Mr. Grossvogel.

Proust: A study of the major themes, techniques, and implications of *A la recherche du temps perdu*, as well as a review of the critical corpus concerned with that work.

600. SEMINAR IN FRENCH LINGUISTICS

Offered in accordance with student needs. Credit four hours a term. Mr. Hall.

639-640. SPECIAL TOPICS IN FRENCH LITERATURE

Throughout the year. Credit four hours a term. Staff.

ITALIAN

345-346. DANTE

Throughout the year. Credit four hours a term. Prerequisite: a reading knowledge of Italian and consent of instructor.

431. STRUCTURE OF ITALIAN

Fall term in alternate years. Credit four hours. Prerequisite: qualification in Italian. Mr. Hall.

432. ITALIAN DIALECTOLOGY

Spring term in alternate years. Credit four hours. Mr. Hall.

433. OLD ITALIAN TEXTS

Fall term in alternate years. Credit four hours. Prerequisite: consent of the instructor. Mr. Hall.

435. HISTORY OF THE ITALIAN LANGUAGE

Fall term in alternate years. Credit four hours. Prerequisite: qualification in Italian and Linguistics 201. Mr. Hall.

457. EUGENIO MONTALE

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Biasin.

460. GIOVANNI VERGA

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Biasin.

An analysis of Verga's work with relation to its historical and cultural significance. In Italian.

481. ITALO SVEVO

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Biasin.

An analysis of the Triestine writer's complete work. In Italian.

545. SPECIAL TOPICS IN *THE DIVINE COMEDY*

Spring term. Credit four hours.

Topic to be announced.

600. SEMINAR IN ITALIAN LINGUISTICS

Offered in accordance with student needs. Credit four hours. Mr. Hall.

639-640. SPECIAL TOPICS IN ITALIAN LITERATURE

Throughout the year. Credit four hours. Staff.

SPANISH

401-402. HISTORY OF THE SPANISH LANGUAGE

Throughout the year in alternate years. Credit four hours a term. Prerequisite: qualification in Spanish, and Linguistics 201. Messrs. Lozano or Saltarelli.

403. THE GRAMMATICAL STRUCTURE OF SPANISH

Fall term. Credit four hours. Prerequisite: qualification in Spanish, and Linguistics 201. Mr. Lozano or Mr. Saltarelli.

Descriptive analysis of the morphological and syntactical structure of present-day standard Spanish.

404. SPANISH FOR TEACHERS

Spring term. Credit four hours. Prerequisite: qualification in Spanish, and Linguistics 201. Mr. Lozano or Mr. Saltarelli.

A course in methodology and applied linguistics for prospective teachers of the Spanish language. A survey of current attitudes, methods, materials, and techniques. The application of descriptive linguistics to the organization of

120 SEMITIC STUDIES

lesson material, illustrated mainly through the contrastive study of Spanish and English phonology. Required for provisional New York State teacher certification.

457-458. CERVANTES

Throughout the year. Credit four hours a term. Prerequisite: a 300-level Spanish literature course and consent of the instructor. May be entered in the second semester.

Fall term: *Don Quixote* and *La Galatea*. Spring term: the *novelas* and *Persiles*. Classes conducted in Spanish.

483. EIGHTEENTH- AND NINETEENTH-CENTURY SPANISH DRAMA

Fall term. Credit four hours. Prerequisite: one 300-level literature course or consent of the instructor. Mr. Kronik.

486. CONTEMPORARY SPANISH DRAMA

Spring term. Credit four hours. Prerequisite: a 300-level Spanish literature course and consent of the instructor. Mr. Brenes.

A study of the theater in Spain from 1940 to today. Class conducted in Spanish.

487. NINETEENTH-CENTURY NOVEL

Fall term. Credit four hours. Prerequisite: a 300-level Spanish literature course and consent of instructor. Mr. Brenes.

A study of *costumbrismo* and realism in significant nineteenth-century Spanish novels. Class conducted in Spanish.

501. LINGUISTIC STRUCTURES OF IBERO-ROMANCE

Fall term. Credit four hours. Mr. Agard.

541. SEMINAR IN SPANISH LITERATURE: FOURTEENTH-CENTURY NARRATIVE FICTION

Fall term. Credit four hours.

590. GRADUATE SEMINAR IN SPANISH-AMERICAN LITERATURE

Spring term. Credit four hours. Mr. Bernstein.

Modern Mexican literature. Emphasis on literature since 1930, and on the assimilation of the Spanish exiles after 1939; their influence on Mexican writers and on Mexican literary culture.

600. SEMINAR IN IBERO-ROMANCE LINGUISTICS

Offered in accordance with student needs. Credit four hours. Mr. Agard or Mr. Solá.

639-640. SPECIAL TOPICS IN HISPANIC LITERATURE

Throughout the year. Credit four hours a term. For graduate students. Staff.

SEMITIC STUDIES

Faculty: Calum M. Carmichael, Alfred L. Ivry, David Patterson, Isaac Rabinowitz.

Field Representative: Isaac Rabinowitz, 173 Goldwin Smith Hall.

MAJOR AND MINOR SUBJECTS

Arabic

Biblical Studies

Aramaic (including Syriac)

Hebrew

Semitic Studies at Cornell are primarily concerned with those Semitic languages and literatures which have most directly, deeply, and permanently influenced—and been influenced by—the civilization and culture of Europe and the Americas. More specifically, the Graduate School's program in this Field is designed to help students become skilled interpreters and expounders of Hebrew, Aramaic-Syriac, and Arabic texts of humane interest, importance, and value, whether ancient, medieval, or modern.

Candidates for the Ph.D. degree will be expected to demonstrate sufficient expertness in the full range of Hebrew, Aramaic-Syriac, and Arabic studies—especially, control of texts in these languages—to be adjudged capable of teaching and of scholarship within their ambit. Each candidate will be expected to *emphasize* one of these several groups but to achieve an only lesser degree of control of the others. Within whatever group he may choose to emphasize, he will *specialize* in one or another type of texts (e.g., literary or philosophical), and normally his dissertation will be written on a topic germane to his specialization.

Candidates for the Ph.D. degree whose major subject is biblical studies will be required to demonstrate special proficiency in the original languages of the Old and New Testaments and in those of the chief ancient versions: Hebrew, Aramaic, Greek, Latin, and Syriac. Proficiency in Arabic will also be required.

Candidates for advanced degrees in any subject included in the Field of Semitic Studies will be expected to have had at least three years of undergraduate study of one Semitic language, or the equivalent, prior to admission to the Graduate School.

Competence in reading scholarly materials in any two of the following must have been demonstrated by candidates for the Ph.D. degree before the end of the fourth term of graduate study: French, German, Italian, Russian, Spanish. Candidates for the Master's degree must have demonstrated competence in one of the foregoing, or in Greek or Latin, at least one term before the degree is awarded.

Candidates for advanced degrees in the Field of Semitic Studies may complement their studies with work in some associated Field, e.g., Classics, Comparative Literature, History, or Philosophy.

Examinations required by the Graduate School are described on p. 11 of this *Announcement*.

More detailed information about graduate programs in the Field of Semitic Studies may be obtained by writing to the Field Representative.

Courses

HEBREW AND ARAMAIC

101-102. ELEMENTARY LITERARY HEBREW

Throughout the year. Credit three hours a term. First term prerequisite to second.

201. CLASSICAL HEBREW PROSE

Either term. Credit three hours. Prerequisite: Hebrew 102, or consent of the instructor.

Grammar; selected prose narratives of the Hebrew Bible.

204. POSTBIBLICAL HEBREW PROSE I

Spring term. Credit three hours. Prerequisite: Hebrew 201, or three units of college entrance Hebrew and the consent of the instructor.

Rapid reading of narrative texts in rabbinic, medieval, and modern Hebrew.

302. CLASSICAL HEBREW POETRY

Spring term. Credit four hours. Prerequisite: Hebrew 201 or consent of the instructor.

Reading and interpretation of texts selected from the Psalter and the Prophets.

305. POSTBIBLICAL HEBREW PROSE II

Fall term. Credit four hours. Prerequisite: Hebrew 204, or four units of college entrance Hebrew and consent of the instructor.

Readings in the Mishnah, in medieval theological and philosophical texts, and in the modern essay.

307. POSTBIBLICAL HEBREW POETRY

Fall term. Credit four hours. Prerequisite: Hebrew 305.

Reading of representative works by important medieval and modern Hebrew poets from Kalir to Bialik.

411. MISHNAH AND TOSEPHTA

Fall term. Credit four hours. Prerequisite: Hebrew 305 or consent of the instructor.

421. MIDRASH

Fall term. Credit four hours. Prerequisite: Hebrew 305 or consent of the instructor.

423. TALMUD

Fall term. Credit four hours. Prerequisite: Hebrew 305 and Aramaic 452, or consent of the instructor.

432. MEDIEVAL HEBREW LITERATURE

Spring term. Credit four hours. Prerequisite: Hebrew 305 or consent of the instructor.

Study of a group of texts illustrative of several of the main genres of medieval Hebrew literature: biblical exegesis, liturgical poetry, ethics, philosophy, mysticism, science, etc.

441. MODERN HEBREW LITERATURE

Fall term. Credit four hours.

The development of modern Hebrew letters, both fiction and nonfiction, traced in selected works of the best writers from "Mendele" (S. J. Abramowitz, 1836-1917) and "Ahad Ha-'Am" (Asher Ginsberg, 1856-1927) to the present.

451. ARAMAIC

Fall term. Credit four hours. Prerequisite: Hebrew 201, Arabic 208, or consent of the instructor.

452. TALMUDIC ARAMAIC

Spring term. Credit four hours. Prerequisite: Hebrew 305 or consent of the instructor.

Accidence and syntax of Galilean and of Babylonian Talmudic Aramaic.

453-454. SYRIAC

Throughout the year. Credit four hours a term. Prerequisite: Hebrew 201, Arabic 208, or consent of the instructor.

The classical language and literature of Syrian and Mesopotamian Christianity.

471-472. SEMINAR

Throughout the year. Credit four hours a term.

401. INDEPENDENT STUDY

Either term. Credit two hours. Staff.

402. INDEPENDENT STUDY

Either term. Credit four hours. Staff.

ARABIC

105-106. ELEMENTARY LITERARY ARABIC

Throughout the year. Credit three hours a term. First term prerequisite to second.

207-208. INTERMEDIATE LITERARY ARABIC

Throughout the year. Credit three hours a term. Prerequisite: Arabic 106 or consent of the instructor.

Rapid reading of selected texts in the main genres of Arabic literature.

317. ISLAMIC TEXTS IN ARABIC

Fall term. Credit four hours. Prerequisite: Arabic 208 or consent of the instructor.

318. ARABIC GEOGRAPHERS AND HISTORIANS

Spring term. Credit four hours. Prerequisite: Arabic 208 or consent of the instructor.

461. MEDIEVAL ARABIC *BELLES LETTRES* ('ADAB)

Spring term. Credit four hours. Prerequisite: Arabic 317 or 318, or consent of the instructor.

462. ARABIC PHILOSOPHERS

Fall term. Credit four hours. Prerequisite: Arabic 317 or 318, or consent of the instructor.

481. MODERN ARABIC LITERATURE

Fall term. Credit four hours. Prerequisite: Arabic 318, or consent of the instructor.

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482. ARABIC POETRY

Spring term. Credit four hours. Prerequisite: Arabic 318, 461, or consent of the instructor.

491-492. SEMINAR

Throughout the year. Credit four hours a term.

405. INDEPENDENT STUDY

Either term. Credit two hours. Staff.

406. INDEPENDENT STUDY

Either term. Credit four hours. Staff.

OTHER COURSES

COMPARATIVE LITERATURE 301. THE LITERATURE OF THE OLD TESTAMENT

Fall term. Credit four hours. Mr. Rabinowitz.

Readings, in translation, from books of the Old Testament composed during the pre-Exile period of Israel's history (to c. 520 B.C.). The various genres of classical Hebrew literature and the ancient Israelite ideas and institutions essential to comprehension of the texts will be studied.

COMPARATIVE LITERATURE 302. THE LITERATURE OF POST-EXILIC ISRAEL

Spring term. Credit four hours. Mr. Rabinowitz.

Readings, in translation, from the later books of the Old Testament, the apocryphal literature, and the Qumran (Dead Sea) Scrolls. An introduction to the thought of the culture which produced both normative Judaism and early Christianity.

COMPARATIVE LITERATURE 303. LITERARY STUDIES IN CHRISTIAN ORIGINS

Fall term. Credit four hours. Mr. Carmichael.

Analysis of important ideas in the New Testament and early Christianity in relation to their appearance in the Old Testament and other ancient Near Eastern literature.

COMPARATIVE LITERATURE 304. THE RATIONAL TRADITION IN JEWISH AND ISLAMIC LITERATURE

Spring term. Credit four hours. Mr. Ivry.

Topics illustrative of the attempt within Judaism and Islam to locate religious tradition in a rational framework.

SLAVIC STUDIES

Faculty: Patricia Carden, William Chalsma, Frederick Foos, George Gibian, Martin Horwitz, Richard L. Leed.

Field Representative: Richard L. Leed, 131 Morrill Hall.

MAJOR AND MINOR SUBJECTS

Russian Literature

Slavic Linguistics

ADMISSION REQUIREMENTS. There are no special requirements for admission to the Field of Slavic Studies other than the general requirements for admission to the Graduate School. It is recommended, though not required, that applicants submit scores from the Graduate Record Examinations.

LANGUAGE REQUIREMENTS. Candidates for the M.A. degree are required to demonstrate a reading knowledge of either French or German. Candidates for the Ph.D. degree are required to demonstrate a reading knowledge of both French and German.

TEACHING. Candidates for the Ph.D. degree are normally required to spend two semesters as teaching apprentices as a part of their training towards the degree.

SPECIALIZATION WITHIN THE FIELD. A student who chooses either Russian literature or Slavic linguistics as a major may choose the other for a minor, or he may choose minor subjects from other Fields in the University, e.g., other literatures, linguistics, history, government, economics, psychology, mathematics, computer science, philosophy, etc.

A Ph.D. candidate will normally have two minor subjects, although it is possible, in consultation with the chairman of his Special Committee, to plan a program of studies with only one; in the latter case the student is still required to select a total of three professors to serve on his Special Committee.

The scope of the Slavic Studies program can be seen from the listings of faculty specializations and courses, although these listings do not exhaust the possibilities.

EXAMINATIONS. Three examinations are required of Ph.D. students: (1) The qualifying examination, given at the end of the first year, is intended to assess the student's capacity for Ph.D. work and to enable the members of his Special Committee to assist him in planning his future work on the basis of his strengths and weaknesses as exhibited in the examination. (2) The Admission to Candidacy Examination is a comprehensive examination usually taken in the third year. One year of residence must follow. (3) The Final Examination is primarily concerned with the subject matter of the student's dissertation and is taken upon completion of the dissertation.

The dates for oral examinations are set by the student in consultation with the members of his Special Committee. The dates for written examinations are announced by the department concerned in the student's major subject.

Students for the M.A. degree normally take an examination at the end of their second semester of study. If, on the basis of this examination, it is determined that no further course work is required, the student will be awarded the M.A. degree upon submission of a Master's essay.

A student who wishes to obtain the Ph.D. degree will receive an M.A. degree in either of two ways. (1) He may be required to write a Master's Essay if the Special Committee so indicates. This decision is made when the student takes the qualifying examination. (2) Otherwise, he will be awarded the M.A. degree without an essay upon passing the Admission to Candidacy Examination.

Faculty and Specializations

Patricia Carden: twentieth-century prose.

William Chalsma: twentieth-century prose and poetry.

Frederick Foos: comparative Slavic linguistics, South Slavic linguistics, Slovenian.

George Gibian: nineteenth-century literature, Tolstoy, Dostoevsky, contemporary literature.

Martin Horwitz: symbolism, Soviet literature.

Richard Leed: historical Slavic linguistics, Russian dialectology, intonation.

Courses

(This list excludes Russian language courses, which range from elementary to advanced, including special reading courses.)

SLAVIC 131-132. ELEMENTARY COURSE IN SLAVIC LANGUAGES

Throughout the year. Credit three hours a term. Prerequisite: qualification in Russian and consent of the instructor. Staff.

In a given year one of the following languages will be offered according to demand: Serbo-Croatian, Bulgarian, Slovenian, Polish, or Czech.

RUSSIAN 301-302. ADVANCED RUSSIAN MORPHOLOGY AND SYNTAX

Throughout the year. Credit four hours. Prerequisite: for 301, Russian 204 or consent of the instructor.

[RUSSIAN 314. INTELLECTUAL BACKGROUND OF RUSSIAN LITERATURE, 1750-1900]

Spring term. Credit four hours. Not offered in 1970-71.

Rise of Romanticism. Slavophiles. Western influences. Conducted in English, but reading knowledge of Russian required.

RUSSIAN 331. RUSSIAN POETRY

Fall term. Credit four hours. Prerequisite: Russian 202 and consent of the instructor. T Th 2:30 and one hour to be arranged. Mr. Gibian.

RUSSIAN 332. RUSSIAN THEATER AND DRAMA

Fall term. Credit four hours.

Survey of the history of the Russian drama from the eighteenth century to the present. Fonvizin. Griboedov. Gogol. Ostrovsky. Chekhov. Soviet dramatists. Conducted in English, but reading knowledge of Russian required.

RUSSIAN 334. THE RUSSIAN SHORT STORY

Spring term. Credit four hours. T Th 2:30 and one hour to be arranged. Prerequisite: Russian 202 and consent of the instructor. Miss Carden.

Gogol, Turgenev, Chekhov, and others.

COMPARATIVE LITERATURE 367. THE RUSSIAN NOVEL

Fall term. Credit four hours. T Th S 9:05. Mr. Chalsma.

Works by Turgenev, Dostoevsky, and Tolstoy in translation.

COMPARATIVE LITERATURE 368. SOVIET LITERATURE

Spring term. Credit four hours. M W F 10:10. Mr. Gibian.

An introduction to selected works of Russian literature (in translation), from 1917 to date, examined as social and historical documents and as works of art.

RUSSIAN 401-402. HISTORY OF THE RUSSIAN LANGUAGE

Throughout the year in alternate years. Credit four hours a term. Prerequisite: qualification in Russian, and Linguistics 201-202. M W F 2:30. Mr. Foos.

[RUSSIAN 403. LINGUISTIC STRUCTURE OF RUSSIAN]

Fall term in alternate years. Credit four hours. Prerequisite: qualification in Russian, and Linguistics 201. Mr. Leed. Not offered in 1970-71.

A descriptive study and analysis of Russian linguistic structure. Russian phonetics, phonemics, morphology, and syntax.

[RUSSIAN 404. RUSSIAN FOR TEACHERS]

Spring term in alternate years. Credit four hours. Prerequisite: qualification in Russian, Linguistics 201, and Russian 403. Mr. Leed. Not offered in 1970-71.

RUSSIAN 421. SUPERVISED READING AND RESEARCH

Either term. Variable credit. By permission of the department.

RUSSIAN 431. RUSSIAN PROSE FICTION

Fall term. Credit four hours. Prerequisite: Russian 332 or 334 or the equivalent, and consent of the instructor. T Th 2:30 and one hour to be arranged. Mr. Gibian.

RUSSIAN 432. PUSHKIN

Spring term. Credit four hours. Prerequisite: consent of the instructor. T Th 1:25, and one hour to be arranged. Mr. Horwitz.

RUSSIAN 435. GOGOL

Fall term. Credit four hours. Prerequisite: Russian 332 or 334 or equivalent, and consent of the instructor. M W F 10:10. Mr. Horwitz.

RUSSIAN 493. HONORS ESSAY TUTORIAL

Either term. Credit four hours.

RUSSIAN 501. OLD CHURCH SLAVIC

Fall term in alternate years. Credit four hours. Mr. Leed.

RUSSIAN 502. OLD RUSSIAN

Spring term in alternate years. Credit four hours. Mr. Leed.

RUSSIAN 517-518. RUSSIAN STYLISTICS

Throughout the year. Credit four hours a term. Miss Glasse.

Literary uses of the Russian language. Close examination of texts from various periods and genres. Practical exercises.

[RUSSIAN 521. RUSSIAN LITERATURE FROM THE BEGINNINGS TO 1700]

Spring term. Credit four hours. Reading knowledge of Russian required. Not offered in 1970-71.

Old Russian literature, with attention to the development of the Russian literary language.

RUSSIAN 522. EIGHTEENTH-CENTURY LITERATURE

Spring term. Credit four hours. Prerequisite: Russian 521 or consent of the instructor. M W F 2:30. Miss Glasse.

RUSSIAN 523. EARLY NINETEENTH-CENTURY LITERATURE

Fall term. Credit four hours. Conducted partly in Russian. Miss Glasse.

RUSSIAN 534. TOPICS IN RUSSIAN SYMBOLISM

Spring term. Credit four hours. W 3:35-5:30. Mr. Horwitz.

LINGUISTICS 561-562. COMPARATIVE SLAVIC LINGUISTICS

Throughout the year in alternate years. Credit four hours a term. Prerequisite: consent of the instructor, Mr. Foos.

RUSSIAN 600. SEMINAR IN SLAVIC LINGUISTICS

Offered in accordance with student needs. Credit four hours.

RUSSIAN 601. INTRODUCTION TO GRADUATE STUDY

Fall term. Credit four hours. Staff.

Required of all first-year graduate students majoring in Russian literature. Bibliography, methods of literary analysis, stylistics, topics in scholarship.

SLAVIC 603. INTRODUCTION TO SLAVIC LINGUISTICS

Fall term. Credit four hours. Prerequisite: consent of the instructor. Open only to graduate students majoring in Russian literature. Mr. Foos.

Survey of basic concepts and current trends in linguistic theory; comparison of the basic structures of the Slavic languages.

SLAVIC 604. SEMINAR IN APPLICATION OF LINGUISTICS TO ANALYSIS OF SLAVIC LITERATURES

Spring term. Credit four hours. Prerequisite: consent of the instructor. Mr. Foos.

Specific topics to be chosen according to the students' needs.

RUSSIAN 611. SEMINAR IN RUSSIAN DIALECT GEOGRAPHY

Fall term. Credit four hours. Prerequisite: consent of the instructor. Mr. Leed.

RUSSIAN 671. SEMINAR IN TWENTIETH-CENTURY RUSSIAN LITERATURE

Fall term. Credit four hours. May be taken repeatedly. Miss Carden.

Topic to be announced.

RUSSIAN 672. SEMINAR IN NINETEENTH-CENTURY RUSSIAN LITERATURE

Spring term. Credit four hours. May be taken repeatedly. Mr. Horwitz.

Topic varies from year to year.

THEATRE ARTS

Faculty: H. Darkes Albright, Gordon Beck, Marvin A. Carlson, James H. Clancy, Stephen Cole, Bert O. States.

Field Representative: Marvin A. Carlson, 106 Lincoln Hall.

MAJOR SUBJECTS⁷

Cinema Studies (M.A. only)
Drama and the Theatre
Dramatic Production (M.A. only)

MINOR SUBJECTS

Cinema
Dramatic Production

7. See also the M.F.A. Program below.

ADMISSION REQUIREMENTS. Candidates for the academic degrees are selected on the basis of undergraduate achievement, letters of recommendation, and Graduate Record Examinations Aptitude Test scores. If these scores are to be available by the time applications for fellowships and scholarships are received, the examination must be taken by December. For the M.F.A. degree, interviews and screening sessions are normally required. A few applicants with superior qualifications may be admitted directly to the doctoral program without prior graduate study, but normally direct admission to this program will be restricted to those with M.A. degrees. Others will be admitted as candidates for the Master's degree or the Master's degree and doctorate. The latter will be reconsidered during the third term of their work in residence for admission to the doctoral program.

LANGUAGE REQUIREMENTS. There is no M.A. degree language requirement, although students planning to work for a Ph.D. degree are encouraged to attain proficiency in one foreign language before gaining the M.A. degree. The language requirement for the Ph.D. degree is normally proficiency in two foreign languages. The Special Committee, however, may approve a single language at a higher proficiency when this seems justified by the area of thesis investigation.

EXAMINATIONS. A final examination is required for the M.A. degree, although students wishing to be considered for Ph.D. candidacy should combine this with the Examination for Admission to Candidacy. Three examinations are required for the Ph.D. degree: (1) The Examination for Admission to Candidacy, given in the third term of residence. This examination serves, with completed course work, as a basis for judgment of the applicant's fitness to continue study toward the doctorate. (2) A comprehensive examination on the field, given not later than two terms before completion of residence. (3) A Final Examination on the thesis and related material, given upon completion of the thesis.

RESEARCH AND STUDY OPPORTUNITIES. The chief aim of the Ph.D. program in Theatre Arts is to develop competent investigators, teachers, and directors for the educational theatre. Therefore research, teaching, and production will be, to a meaningful extent, concerned in each Ph.D. program.

The Field of Theatre Arts offers opportunity for graduate study and research in many phases of the discipline, including dramatic literature; history, criticism, and aesthetics of the theatre; cinema studies; playwriting; and most aspects of dramatic production. The special interests of the staff are as follows:

H. Darkes Albright: acting, theatre history, and aesthetics.

Gordon Beck: cinema studies.

Marvin A. Carlson: dramatic literature, theatre history.

James H. Clancy: directing, dramatic literature, theatre aesthetics.

Stephen Cole: acting, directing, theatre history.

Bert O. States: playwriting, dramatic structure.

THE M.F.A. PROGRAM. In addition to the M.A. and Ph.D. degrees, the Field has recently instituted a Master of Fine Arts degree (in acting/directing), requiring a minimum of two years in residence and emphasizing training in workshop and studio. A final project will replace the conventional final examination. The M.F.A. is normally a terminal degree. (In some cases, the work in acting/directing may be pursued on a nondegree basis.)

Courses

The following list of courses and seminars is assembled from the offerings of previous years and is intended to be illustrative. Students interested in dramatic literature should also note the offerings in the Field of Comparative Literature and the various national literatures.

ACTING AND DIRECTING

380. ADVANCED ACTING

Spring term. Credit four hours. Prerequisite: 280 or consent of the instructor.

Practical emphasis upon integration of conception, preparation of role, and techniques of presentation.

385-386. AMERICAN MIME

Throughout the year. Credit two hours a term. First term prerequisite to second.

The actor is taught to create and perform symbolic activities in the mime form. The first semester work is divided into acting, movement, and material. Emphasis in the second semester is on directing, design, and creative imagination. Work is completed by the creating and playing of scenes.

390. ADVANCED DIRECTING

Spring term. Credit four hours. Prerequisite: 290 and consent of the instructor.

Intensive study of script analysis in the theatrical medium. Modes of meaning in the theatre and methods of realizing meaning in the theatrical medium.

490. PROJECTS IN DIRECTING

Either term. Credit to be arranged. Prerequisite: consent of the departmental staff.

The planning and execution of directing projects by advanced students in the public facilities of the Theatre Arts Department.

495. SEMINAR IN THEORIES OF DIRECTING

Fall term. Credit four hours. Prerequisite: consent of instructor.

A study of the theory and practice of significant directors in theatre history. An examination of directorial interpretation and theatrical realization, with consideration of the social, philosophical, and cultural milieu in which the directors worked.

CINEMA

375. HISTORY OF THE CINEMA I

Fall term. Credit four hours.

An introduction to the history and art of the cinema: its characteristic problems, devices, and development. Representative motion pictures will be studied. Lectures, demonstrations, and film viewings.

376. HISTORY OF THE CINEMA II

Spring term. Credit four hours.

An examination of the nonfiction film and the independent film. Attention is given to the film maker as artist, propagandist, and recorder. Representative examples will be studied. Lectures, demonstrations, and film viewings.

377. FUNDAMENTALS OF CINEMATOGRAPHY

Fall term. Credit four hours.

Principles and methods of motion picture production with primary emphasis on creative techniques: script writing, photography, editing, special effects, and sound recording. Lectures, demonstrations, and special projects.

475. SEMINAR IN THE CINEMA

Spring term. Credit four hours. Prerequisite: 375 and 376.

Selected topics in the history and aesthetics of the cinema.

PLAYWRITING

388. PLAYWRITING

Fall term. Credit four hours. Previous study in play production recommended.

A laboratory for the discussion of student plays. Each student is expected to write two or three one-act plays, or one full-length play.

389. ADVANCED PLAYWRITING

Spring term. Credit four hours. Prerequisite: consent of the instructor.

A continuation of 388.

THEATRE HISTORY, LITERATURE, AND THEORY

393. HISTORY OF THE THEATRE I

Fall term. Credit four hours.

A survey of the characteristics of primitive theatre and of theatrical styles and production modes in classical Greece, Rome, Medieval Europe, Renaissance England, and Spain.

394. HISTORY OF THE THEATRE II

Spring term. Credit four hours.

A survey of theatrical styles and production modes in Europe and the Orient since 1642. Among the areas considered will be Renaissance France, the English Restoration, the eighteenth and nineteenth centuries in England, France, Germany, and Japan, and the modern international stage.

396. AMERICAN DRAMA AND THEATRE

Spring term. Credit four hours.

A study of the American theatre and representative American plays with emphasis on the drama from O'Neill to the present.

[493. SEMINAR IN THEATRE HISTORY]

Not offered in 1970-71.

497. THEATRE AESTHETICS

Fall term. Credit four hours. Prerequisite: two 300-level or 400-level courses in drama.

The chief theories of dramatic production in relation to aesthetic principles.

[597. SEMINAR IN THEATRE AESTHETICS]

Not offered in 1970-71.

598. SEMINAR IN THEATRE CRITICISM

Fall term. Credit four hours. Prerequisite: consent of the instructor.
Selected topics in theatre criticism.

690. THESES AND SPECIAL PROBLEMS IN DRAMA AND THE
THEATRE

THEATRE PRODUCTION AND DESIGN

361. STAGECRAFT

Either term. Credit four hours.

A survey of technical problems of stage production. Lectures and demonstrations on theatre structure and equipment, scene construction and painting, stage lighting and equipment, costume construction, and technical drawing. Practice in scene and costume construction, painting and lighting in both laboratory and actual productions.

364. STAGE DESIGN I

Fall term. Credit four hours. Prerequisite: 361 or consent of the instructor.

A historical survey of stage design. Projects in design and production concepts. Practice in rendering and presentation techniques. Field trip to New York City theatres and scene shops. Laboratory work with designer on scenic elements, stage lighting, and painting for Department productions.

365. STAGE DESIGN II

Spring term. Credit four hours. Prerequisite: 364 or consent of the instructor.
Continuation of Stage Design I.

367. COSTUME DESIGN I

Fall term. Credit four hours.

Stage costume design and construction. Practice in costume design, period research, rendering techniques. Laboratory in practical costume construction.

368. COSTUME DESIGN II

Spring term. Credit four hours. Prerequisite: 367 or consent of the instructor.
Continuation of Costume Design I.

467. ADVANCED COSTUME DESIGN

Fall term. Credit and hours to be arranged. Consent of instructor.

Projects in stage costume design and rendering techniques. Emphasis on design of total production. May be repeated for credit.

468. ADVANCED COSTUME CONSTRUCTION

Spring term. Credit and hours to be arranged. Consent of instructor.

Projects in application of historical patterning for the stage. May be repeated for credit.

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Graduate School Calendar, 1969-70

FALL TERM

	1969-70
Registration, new students	Sept. 11
Registration, old students	Sept. 12
Fall term instruction begins, 7:30 A.M.	Sept. 15
Last day for filing statement-of-courses form and change-of-committee form and for new students to file nomination-of-committee forms	Sept. 26
Last day for old students to take Admission-to-Candidacy Examinations in order to have them considered as of the beginning of the term	Oct. 15
Language Examinations: French, German, Russian, and Spanish	Nov. 1
Last day for change of course registration	Nov. 21
Thanksgiving recess: Instruction ends, 1:10 P.M.	Nov. 26
Instruction resumes, 7:30 A.M.	Dec. 1
Language Examinations: French, German, Russian, and Spanish	Dec. 6
Fall term classes end, 1:10 P.M.	Dec. 20
Christmas recess	Dec. 20
Last day for completing all requirements for January degrees	Jan. 16
Independent study period begins	Jan. 5
Final examinations begin	Jan. 12
Final examinations end	Jan. 20
Intersession begins	Jan. 21

SPRING TERM

Registration, new students	Jan. 29
Registration, old students	Jan. 30
Language examinations: French, German, Russian, and Spanish	Jan. 31
Last day for filing fellowship and scholarship applications for the following year	Feb. 1
Spring term instruction begins, 7:30 A.M.	Feb. 2
Last day for filing statement-of-courses form and change-of-committee form, and for new students to file nomination-of-committee forms	Feb. 13
Last day for old students to take Admission-to-Candidacy Examinations to have them considered as of the beginning of the term	March 1
Spring recess: Instruction suspended, 1:10 P.M.	March 28
Instruction resumed, 7:30 A.M.	April 6
Last day for change of course registration	April 10
Language examinations: French, German, Russian, and Spanish	May 2
Spring term classes end, 1:10 P.M.	May 16
Independent study period begins	May 18
Last day for completing all requirements for June degrees	May 22
Final examinations begin	May 25
Final examinations end	June 2
Commencement	June 8

SUMMER

Summer Research period begins	June 3
Registration for Summer Session	June 22 (8-week)
	July 1 (6-week)
Last day for filing statement-of-courses form and change-of-committee form and for new students to file nomination-of-committee forms	July 7
Language examination: French, German, Russian, and Spanish	July 18
Summer Session ends	Aug. 14
Last day for completing all requirements for September degrees	Aug. 28
Summer Research period ends	Sept. 11

Graduate School Calendar, 1970-71 (Tentative)

FALL TERM

1970-71

Registration, new students	Sept. 10
Registration, old students	Sept. 11
Fall term instruction begins, 7:30 A.M.	Sept. 14
Last day for filing statement-of-courses form and change-of-committee form and for new students to file nomination-of-committee forms	Sept. 25
Last day for old students to take Admission-to-Candidacy Examinations in order to have them considered as of the beginning of the term	Oct. 15
Last day for change of course registration	Nov. 20
Thanksgiving recess: Instruction ends, 1:10 P.M.	Nov. 25
Instruction resumes, 7:30 A.M.	Nov. 30
Fall term classes end, 1:10 P.M.	Dec. 19
Christmas recess	Dec. 19
Last day for completing all requirements for January degrees	Jan. 8
Independent study period begins	Jan. 4
Final examinations begin	Jan. 11
Final examinations end	Jan. 19
Interession begins	Jan. 20

SPRING TERM

Registration, new students	Jan. 28
Registration, old students	Jan. 29
Last day for filing fellowship and scholarship applications for the following year	Feb. 1
Spring term instruction begins, 7:30 A.M.	Feb. 1
Last day for filing statement-of-courses form and change-of-committee form and for new students to file nomination-of-committee forms	Feb. 12
Last day for old students to take Admission-to-Candidacy Examinations to have them considered as of the beginning of the term	March 1
Spring recess: Instruction suspended, 1:10 P.M.	March 27
Instruction resumed, 7:30 A.M.	April 5
Last day for change of course registration	April 9
Spring term classes end, 1:10 P.M.	May 15
Independent study period begins	May 17
Last day for completing all requirements for June degrees	May 24
Final examinations begin	May 24
Final examinations end	June 1
Commencement	June 7

SUMMER

Summer Research period begins	June 2
Registration for Summer Session	June 21 (8-week)
	June 30 (6-week)
Last day for filing statement-of-courses form and change-of-committee form and for new students to file nomination-of-committee forms	July 7
Summer Session ends	Aug. 13
Last day for completing all requirements for September degrees	Aug. 30
Summer Research period ends	Sept. 10